Operating Instructions.

- Articos 32 HD/DR+

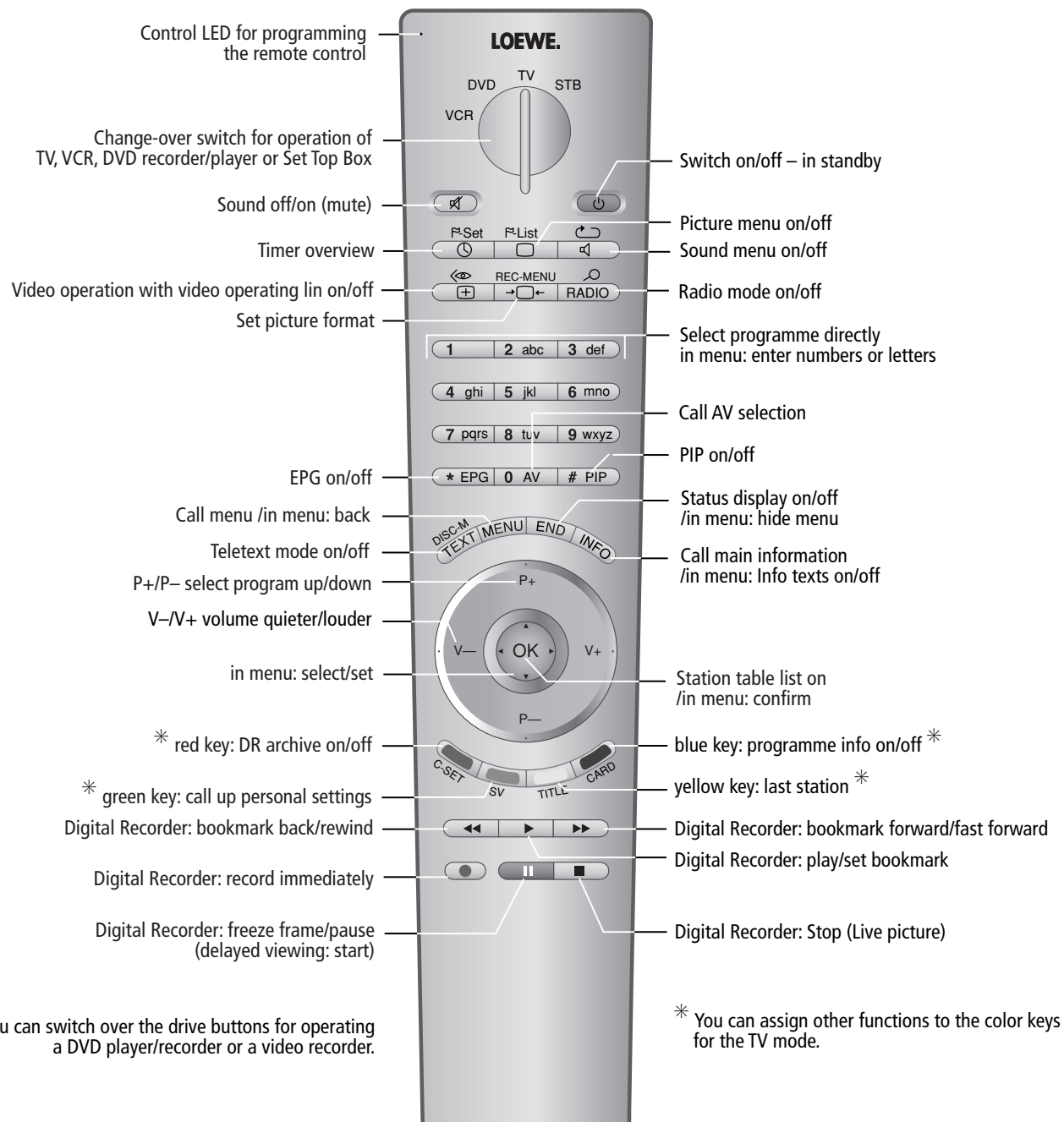TV.

233–31310.021
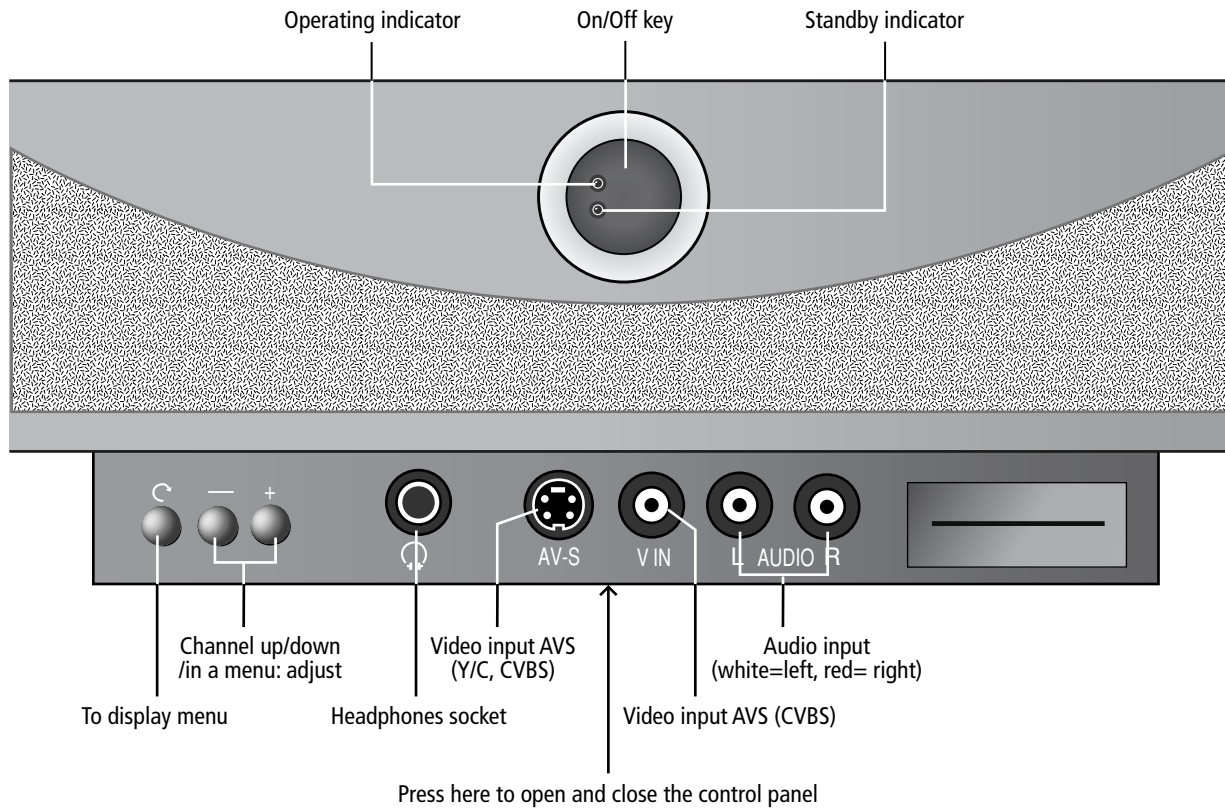
LOEWE.

Contents

Remote control – TV functions

Control LED for programming the remote control

Change-over switch for operation of TV, VCR, DVD recorder/player or Set Top Box

Sound off/on (mute)

Timer overview

Video operation with video operating lin on/off

Set picture format

EPG on/off

Call menu /in menu: back

Teletext mode on/off

P+/P– select program up/down

V–/V+ volume quieter/louder

in menu: select/set

✳ red key: DR archive on/off

✳ green key: call up personal settings

Digital Recorder: bookmark back/rewind

Digital Recorder: record immediately

Digital Recorder: freeze frame/pause (delayed viewing: start)

LOEWE.

DVD   TV   STB
VCR

₽Set ₽List

REC-MENU

1   2 abc   3 def
4 ghi   5 jkl   6 mno
7 pqrs   8 tuv   9 wxyz
★ EPG   0 AV   # PIP

DISC-M
TEXT MENU END INFO

P+
V— OK V+
P—

C-SET   CARD
SV   TITLE

◄◄   ►   ►►
●   II   ■

Switch on/off – in standby

Picture menu on/off

Sound menu on/off

Radio mode on/off

Select programme directly in menu: enter numbers or letters

Call AV selection

PIP on/off

Status display on/off /in menu: hide menu

Call main information /in menu: Info texts on/off

Station table list on /in menu: confirm

blue key: programme info on/off ✳

yellow key: last station ✳

Digital Recorder: bookmark forward/fast forward

Digital Recorder: play/set bookmark

Digital Recorder: Stop (Live picture)

You can switch over the drive buttons for operating a DVD player/recorder or a video recorder.

✳ You can assign other functions to the color keys for the TV mode.

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Control panel

Operating indicator   On/Off key   Standby indicator

Channel up/down
/in a menu: adjust

To display menu   Headphones socket

Video input AVS
(Y/C, CVBS)

Audio input
(white=left, red= right)

Video input AVS (CVBS)

AV-S   V IN   L AUDIO R

Press here to open and close the control panel

4

Rear connections

*VGA-input and output for remote control signal (RC5/RC6)

Service socket/ ConnectionLoewe audio systems (L-Link)

Sockets for video recorder, DVD, decoder etc. (Euro-AV)

*Antenna socket of the satellite tuner
in Twin-Sat: antenna socket of the 2nd satellite tuner
with Satellite Digital-Tuner DVB2S-Basic, DVB 2T/S-CI: antenna socket
with terr. digital tuner DVB2T-Basic: digital audio output

Connection for IR link

*in Twin-Sat: antenna socket of the 1st satellite tuner
Antenna socket of the terrestrial digital TV tuner (DVB-T, DVB 2T/S-CI)
with Satellite Digital-Tuner DVB2 S-Basic: digital audio output

*Antenna output of the terrestrial Digital-TV tuner (DVB2T-CI/DVB 2T/S-CI)
/connect with the antenna socket of the PIP tuner

Connection for rotating foot control

Antenna socket of the antenna/cable tuner
insert the antenna plug of the IP tuner(distributor) here

Antenna socket of the PIP tuner
/insert antenna cable here
/or connect to the output of the
terr. digital TV tuner DVB2T-CI/DVB 2T/S-CI
/or with the terr. dig. tuner DVB2T-Basic, connect
to the antenna system via an antenna splitter

SAT
RC5/RC6
IR
IN
CTRL
VHF/UHF
VGA
AUDIO IN
OUT
VHF/UHF
AUDIO
R
OUT
L
SUBWOOFER STAND

SERVICE

DIG IN
1
2
DIG OUT

AV1   AV2/RGB   AV3

SUR
C   R
SUB   L

Digital tone inputs DIS module

Digital tone output DIS module

External audio input

Audio output sockets

Connection for active center speaker Dolby digital module *

Connection for active surround speakers Dolby digital module *

Connection for subwoofer in the stand,
Loewe active loudspeaker systems
or Home Automation

Connection for special subwoofer Dolby digital module *

*   can be retrofitted

5

Welcome

Thank you,

for choosing a Loewe product.
We are very happy to have you as a customer.

Loewe combines high quality in technology, design and user friendliness. This applies equally for TV, video and accessories.
Neither the technology nor the design are an end in themselves but serve to give our customers pure watching and listening enjoyment. We have not allowed ourselves to be led astray by short-lived fashion trends in the design. You have, after all, purchased a high-quality piece of equipment which you don't want to get tired of looking at tomorrow or the day after.

About the set
We have designed the TV set in such a way that it is easy to operate with menus. If you need information about how to operate it, just display the info texts with the i button, you will soon get a grasp of the relationships.

You will find the answers to many technical questions in the index of your TV set. If it's a matter of operating the TV, you can access a function directly from the index. This saves you from having to read through detailed operating instructions and is the reason why this operating manual you are reading only explains the most important operating steps.

With the remote control, you can operate three Loewe units, this TV, a Loewe video recorder and a Loewe DVD player.

TV equipment

This operating manual describes the maximum equipment.
The illustrated menu contents may vary depending on the TV equipment.
Operation of the Digital Recorder and the DIS module are described in separate operating manuals.
You can find out what equipment your TV has in the main information – Technical spec. of TV set.

Setup

Have the contrast filter panel fitted to the front of the set by your dealer. Assembly instructions are enclosed with the panel.
The On/Off switch is combined in one unit with the display.
The control panel is integrated in the base of the set underneath the power switch and display unit. To move the control panel out, press it at the bottom. This unlocks and drops it down. The buttons and connections are now accessible. To close again, press the control panel up until it snaps in.

Please note that the feet of the TV set could leave marks on soft wood furniture (e.g. deal, pine, fir etc.) due to the weight and moving the set about.
The plastic material of the feet contains softeners which could in some cases etch the surfaces of furniture.
In such cases you should place a firm underlay about the same size as the base of the TV set underneath it.

Please also read and observe the safety instructions on the following pages.

Make sure no bright light or sunlight falls on the screen and impairs the picture by reflections.

Cleaning

Clean the TV set and the remote control only usingwith only a damp, soft, clean cloth (never use aggressive or abrasive cleaning agents).

A cleaning agent, special cloth and protective gloves are included with the set for cleaning the contrast filter screen. Spray the cleaning agent onto the screen and wipe with the special cloth until no smears remain.

For your own safety

For your own safety and in order to avoid unnecessarily damaging your TV set, please read and observe the following safety instructions:

- This TV set is designed exclusively for receiving and reproducing audio and visual (AV) signals.

- It is designed for the home or office and may not be used in rooms with high humidity (e.g. bathroom, sauna) or a high concentration of dust (e.g. workshops). If the unit is used in the open air ensure that it is protected against moisture (rain, dripping or splashing water, or dew). Do not place containers filled with water, such as vases, on the TV set. High moisture and dust concentrations produce creep currents in the set which can lead to danger of electric shock or fire.
  The manufacturer's warranty is only valid for use of the TV set in the specified permissible environment.

- This set may only be connected to a power supply with the voltage and frequency specified on the rating plate using the enclosed power cable. The wrong voltages can damage the set.

- If the set is moved from a cold environment to a warm room, condensation forms on all parts of the set. Moisture produces creep currents in the set which can cause a fire. In this case, you should leave the set for a reasonable time to acclimatize (when the condensation on the screen has evaporated) before switching it on.

- Like every piece of electronic equipment, your TV needs air for cooling. Obstructing the air supply to the set can cause fires. The air vents on the back of the TV set must always be kept free. Do not leave newspapers or cloths lying on the TV set. The air supply is also impaired when the TV set is placed on a blanket or a thick pile carpet.
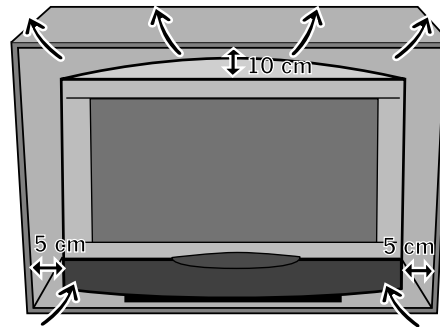

If the TV set is placed in a cabinet or on a shelf, at least 5 cm clearance at the sides and at least 10 cm at the top must be left to allow air to circulate.
Stand the TV set in a place where it is not exposed to direct sunlight or additional heating from radiators.

- Magnetic fields influence the picture quality of the TV set. Therefore, do not place loudspeakers or other magnetic sources immediately next to the TV set.

- Avoid dropping metal objects, needles, paper clips, liquids, wax or similar into the air vents at the back of the set. This causes short circuiting of the set and could start a fire. If anything should get inside the set, switch it off immediately, pull out the plug and call the after-sales service to check it.
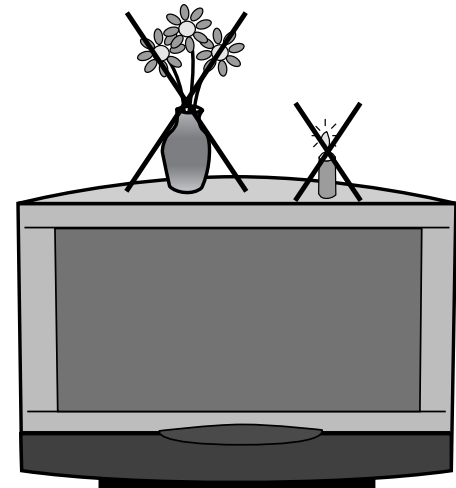

Do not place vases filled with water, lighted candles etc. on the top of the TV set.

For your own safety

- You should never attempt to remove the rear panel of the TV yourself. The set operates with high voltages which could be fatal. Leave repairs and servicing of your TV set to authorized TV technicians.

- Due to the picture tube, TV sets have their center of gravity fairly near to the front. The TV set therefore has a tendency to tip forward relatively easily which could cause injury to persons.
  Only stand the TV set on a level, firm base. The set must stand on all feet. The TV should not overhang particularly when it is placed in a cabinet or on a shelf.
  If the TV is placed on a stand, makes sure this is larger than the surface area of the base of the TV.

  When using turntables and drawer shelves, make sure they have a sufficient load capacity.
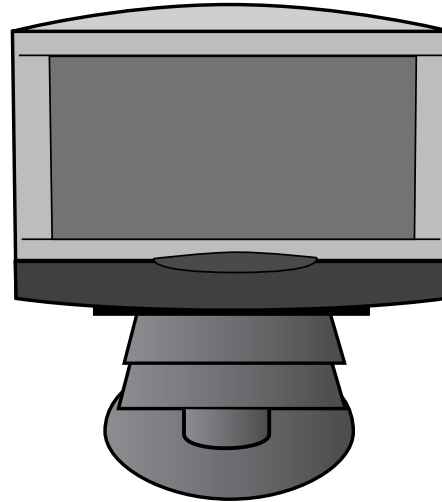
We recommend you to use only original parts, e.g. Loewe racks and stands.

If the TV set is placed on a console with castors, move the console carefully because the console and the TV could tip over. Consoles with castors may considerably reduce the stability of the sets placed on them so only use consoles specially designed and approved for the TV.
Never allow children to handle the TV set unsupervised.

Do not allow children to play close to the TV set, they could knock, push or pull it from the stand and injure someone.

- Do not place the TV anywhere where it may be exposed to vibrations because this can lead to overloading of materials.

- Do not leave the TV on unsupervised.

- Pull out the antenna and mains plugs during a thunderstorm. Surge voltages from lighting strikes can damage the set both through the antenna system and the mains. You should also pull out the antenna and mains plugs during long periods of absence.

- The mains plug of the TV must be easily accessible so that it can be disconnected from the mains quickly at any time.

- Lay the power cable so that it cannot be damaged. The power cable may not be kinked or laid over sharp edges, and may not be walked over or exposed to chemicals; the latter applies for the entire TV set. A power cable with defective insulation can lead to electric shocks and is a fire risk.

- When you pull out the mains plug, do not tug the cable but hold the housing of the plug. The cables in the mains plug could be damaged and cause a short circuit the next time it is plugged in.

Initial installation

Remote control

Batteries
To insert or change the batteries, press the point marked by an embossed arrow. Push the cover of the battery compartment down and remove it. Insert the batteries of the alkaline manganese type LR 03 (AAA) with the correct polarity (+/–).
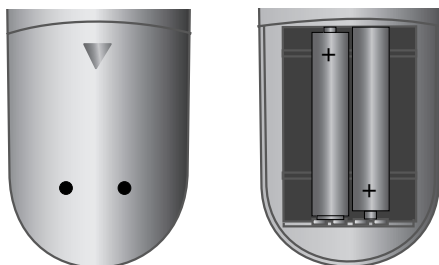
Then push the cover back on.
If the batteries are almost empty you will see the "low battery" message on the TV screen when you operate it. The batteries must then be changed.

Note on disposal of batteries:
The original batteries do not contain any pollutants such as cadmium, lead and mercury. Used batteries do not belong in the domestic waste. They must be taken to the appropriate collection points according to the national laws. Ask your dealer.
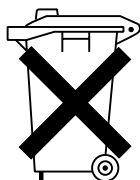
Adjust the remote control for operating the TV set
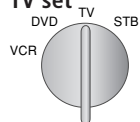
Turn the rotary switch to "TV".

See page 21 follow. for how to switch over the remote control for operating other equipment.

Connection

Mains
Connect the TV set to a 230V/50–60 Hertz outlet.

Antennas
Remove the rear cover from the unit by pulling it backwards. Clip the cables into the cable holders and feed them downwards, through the opening. Connect your antenna or cable system to the antenna socket of the PIP tuner.
Plug the antenna plug protruding from above the PIP tuner into the antenna socket of the VHF/UHF tuner.
If your TV set is equipped with the terrestrial digital tuner 2 T CI or 2 S/T-CI, connect your antenna system to the top socket of the DVB-T module (IN) and connect the bottom socket (OUT) to the antenna input of the PIP tuner.
If when equipped with the terrestrial digital tuner 2 T-Basic a common antenna is used for digital and analog signals, connect the terrestrial digital tuner and the analog tuner to the antenna system via an antenna splitter.
If equipped with one or two satellite tuners, connect the SAT antennae to the SAT sockets (see figure on page 5).
Replace the cover.
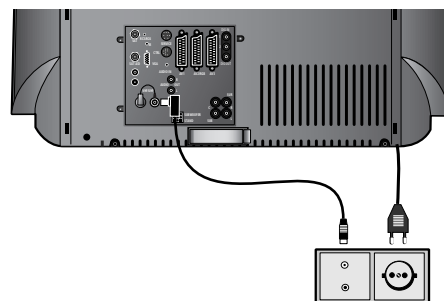
Switching on

The display and the On/Off switch are combined in one unit.
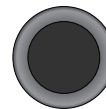
Press the On/Off button so that it is pressed in.

Initial installation

Automatic programming of the TV set is started the first time you switch it on. Follow the menus. First you have to select the menu language for your set. Then you specify which antenna you have connected to your TV and in what country you are using it. Then you start the station search. The TV set searches for, stores and sorts all the stations which your antenna system receives. You then see a list of the stored stations in which you can mark your favorites. Finally log in your video recorders, decoders, Loewe audio system and Home Automation with the connection wizard and connect these to the TV set according to the illustrated connection plan.

Pressing the **OK** button in the direction of the arrow to select the settings

....confirm the settings with **OK**. You then move on to the next menu...

...press this button if you want information about the settings.

You can repeat initial installation at any time, e.g. after moving house. Call the index in the main information (**i** button). Then select the item "Repeat initial installation". Then start "Initial installation" with **OK**.

Daily handling

Switching on/off

Your TV set is equipped with an eco-standby power supply unit. The power consumption drops to low power in standby mode. If you want to save even more energy, switch the set off with the On/Off switch. However, please note that EPG data are then lost and timer recordings programmed on the Digital Recorder set will not be carried out.

However, please note that EPG data will be lost and programmed timer recordings for the Digital Recorder will not be performed.

⏻	If the TV is switched on, you can switch it off with the blue On/Off button on the remote control. The red standby LED on the set lights up. If the green LED also lights, a timer recording is in progress on the VCR or built-in digital recorder, EPG data is being acquired or radio mode without screen display is active.
⏻	From standby it is best to switch back on with the blue On/Off button or with a numeric key (station 0 – 9). The green operating LED then lights up.
OK	When you switch on the TV with **OK**, you see the station table and can choose a station.
RADIO	Switch on in the radio mode.

The display and the On/Off switch are combined in one unit.
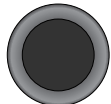
None of the indicators lights up when you switch off the TV set with the On/Off button on the set.
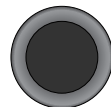
Switch on the TV set with the On/Off button on the set when it is switched off.

Changing channels

Channels up/down (only favorite stations if these are shown in the station table).

With the numeric keys on the remote control
The set has a dynamic memory with 220 (with DVB 1470) memory slots. If up to 9 stations are stored, you only need to enter one number, up to 99 two numbers, up to 999 three numbers and above 999 four numbers (please look in the station table to find out how many stations have been stored).

1-digit stations
Keep the button 0 – 9 pressed for one second, the channel then changes immediately.

7 pqrs
long

Or press the button 0 – 9 briefly, the channel then changes after 2 seconds (changes immediately if only 9 stations are stored).

2-digit stations

2 abc 7 pqrs
short long

Keep the second numeric key pressed for one second, the channel then changes immediately.
Or press both numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 99 stations are stored).

3-digit stations

1 2 7 pqrs
short short long

Keep the third numeric key pressed for one second, the channel then changes immediately.
Or press the three numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 999 stations are stored).

4-digit stations

1 2 7 8 tuv
all short

Press the four numeric keys briefly, the channel then changes immediately.

Depending on how many stations have been stored, you can place one or more zeros in front of the number and select for example station 7 = 07 or 007 or 0007.
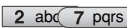
With the station table

OK	Call the station table with **OK**
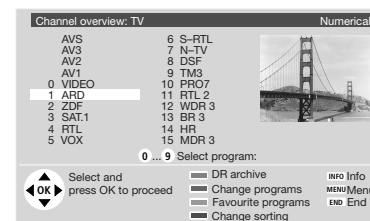
OK	Mark the station (if possible the marked station is shown in the PIP picture)
0 AV ... 9 wxyz	Mark with numeric keys
OK	Call the marked station
	Sort alphabetically/numerically (blue button)

	Display favorite stations only (yellow button)

Call Audio/Video programs – AV selection

0 AV	for playing AV equipment (see also page 20).

AV Selection   VIDEO AV1 AV2 AV3 AVS

OK	Select AV socket or VIDEO for VCR station.

Daily handling

General menu operation

With the TV and picture menus, we show you how to navigate within the menus. Which buttons you can use for operation is shown at the bottom of the appropriate menu.

MENU — Call the TV menu

Mark (white field)

OK — Call the menu with **OK** or ▶

TV menu
Standard settings
Picture ▶
Sound
zap2text
Connections
Settings

INFO Info
MENU Back
END End

Grey menu items cannot be selected

Picture
Contrast
Colour 32
Brightness
Picture format
Sharpness
Tint
other ...

INFO Info
MENU Back
END End

Set (setting value and bar)

Mark other menu items

Picture
other ...
Picture adjustment
DNC off on
DMI Plus
AMD

INFO Info
MENU Back
END End

Select (frame)

INFO — Show/hide info texts

Picture
other ...
Picture adjustment
DNC
DMI Plus
AMD

i DNC (Digital Noise Control)
With DNC you can eliminate or reduce picture interference, e.g. due to poor reception.

MENU — Back to the previous menu level

END — Hide all menus

Adjusting the sound

Set the volume

Set the volume

other ...
Volume 36

with ″others ...″ you can select and ...

Listening mode Stereo Panorama Dolby Virtual
Loudness
Sound adjust
Volume

... set other sound settings.

Mute

Sound off;
Sound on: press button again or adjust volume

Sound off   Sound on

Other sound settings:

Call sound menu, or

MENU — call TV menu using **MENU** …

TV menu
Standard settings
Picture
Sound ▶
zap2text
Connections
Settings

Mark ″Sound″

OK — and call with **OK**

Mark sound function

Sound
Sound via
Listening mode Stereo Panorama Dolby Virtual
Sound adjust
Treble
Bass
Loudness
other ...

Set/select

Sound settings: Sound via the loudspeakers of the TV set or another system. Sound adjust, treble, bass, loudness and balance. Sound select for loudspeakers and headphones, AV output sound. Volume of the headphones, automatic volume and max. volume.

Adjusting the picture

Call the picture menu , **or** call the TV menu using **MENU** …

TV menu
Standard settings
Picture ▶
Sound
zap2text
Connections
Settings

Mark ″Picture″

OK — … and call with **OK**

Picture
Contrast
Colour 32
Brightness
Picture format
Sharpness
Tint
other ...

Mark picture function

Set/select

Picture settings: contrast, color, brightness, picture format, focus, color tone, picture adjustment, noise reduction (DNC), movement compensation (DMI), automatic picture size adaptation (AMD) and rotate picture.

Operation on the TV set

Changing channels on the TV set

+ Channel up

– Channel down

Volume, contrast and color

Press the function button until the desired function is marked

Direct control on TV
Volume 16
Contrast
Colour
Station –/+
Service

Mark
Change

+ More volume, contrast or color

– Less volume, contrast or color

11

Modes of operation

TV mode

In initial installation and daily operation, the TV set is in TV mode. This is also the case when none of the other modes of operation such as Digital Recorder, EPG, Teletext, PIP, Video or Radio is selected.
Every one of these modes of operation has a menu which you can call with the **MENU**-button and with some color button assignments.

Function of the color buttons in TV mode
You can assign the functions of the four color buttons yourself. The following functions are set at the factory:

red: call DR archive

green: call standard values

yellow: call last viewed station

blue: call station info

You can assign other functions to the buttons in the TV menu ″Settings″ – ″Function keys″.

Status display

END   Show/hide status

Clock	20:15
1 ARD	Stereo

Main information

INFO   Call main information

Main information
Autom. channel search
Connections
Explanation of the remote control
Index   ▶
Technical spec. of TV set
Select control level

▲ OK ▶	Select and call up with OK	INFO Info
◁ OK ▶		MENU Back
▼		END End
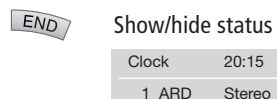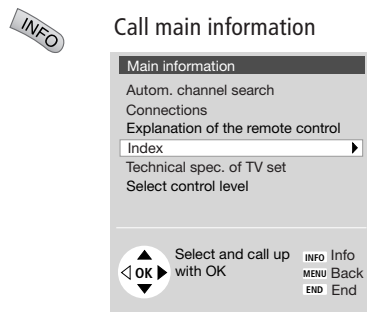
The **explanation of the remote control** shows the function of every button in different modes of operation of the TV set and the remote control.

The **index** answers many questions regarding all aspects of the TV. If it is a question about the operation, you have direct access to the operating function from the index.

Loewe TV sets are supplied in different models with different equipment. You can find out what equipment your TV has under the menu item **″Technical spec. of the TV set″**.

When you have made all the settings and connections, you can switch over to **″Simplified control″** using ″Select Mode″. Then the ″Settings″ and ″Connections″ can no longer be launched in all modes of operation menus. Switch ″Simplified control″ back off when you want to make settings.

TV menu

MENU   Launch the TV menu

TV menu
Standard settings
Picture
Sound
zap2text
Connections
Settings   ▶
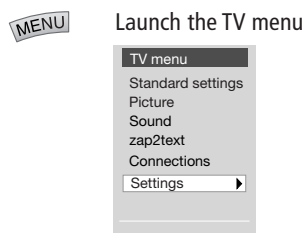
Standard values
You can save the setting for picture and sound you have made in this menu and launch them again later.

Connections
You will find information about this in the chapter ″Logging in and connecting AV equipment″ on page 19.

zap2text
Some stations use this service. If teletext pages are referred to during a program, the TV set saves and/or displays this page number. You call the teletext page with the **TEXT** button from the display during the program or from this menu.

Some **settings** in the TV menu:

Child lock
Use the child lock if you want to prevent your children watching after a certain time, once or daily, all or certain programs.

On-screen displays
You can define duration and position of the displays, the content of the program and status display and activate or deactivate zap2text as a display.

Timer functions
You can have your TV switch on and off at specific times or have yourself reminded by a signal tone.

Time and date
When you receive teletext, the TV records the right date and time settings. The time serves as information for timer recordings, timer functions and EPG. If you do not receive teletext you should set the date and time and not switch the TV off with the mains button as the settings will then be lost.

Language
If ″your″ menu language is not set, you have to select the ″Language″ menu in a language you cannot understand:
Press the **MENU**-button (TV menu), mark the last menu item (settings), press the **OK** button and mark the last menu item (Language) under ″other ...″ and press the **OK** button.
Now select the right language and confirm with **OK**.

Modes of operation

Picture in Picture (PIP)

Standard PIP functions:
In standard PIP, a PIP picture is displayed in the current TV picture. The frame round the PIP picture is initially green in standard PIP.

> `# PIP`   Show/hide PIP picture

PIP picture as still frame

> The frame around the PIP picture must be green. If it is not, press the green button.
> Press the red button to freeze the PIP picture.
> Press again – moving picture.

Changing the station of the PIP picture

> The frame around the PIP picture must be green. If not, press the green button.
> Then select the station as normal.
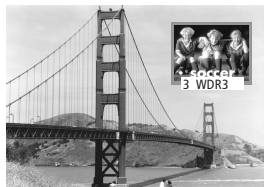
Changing the station of the TV picture

> The frame around the PIP picture must be white. If it is not, press the green button.
> Then select the station as normal.

Station scan

> The frame around the PIP picture must be green. If it is not, press the green button.
> Start the station scan with the blue button. The PIP frame turns blue.

The programs now change automatically.
Stop the program scan with the blue button. The PIP frame turns green again.

Changing PIP picture/TV picture

> The frame around the PIP picture must be green. If it is not, press the green button.
> Change the pictures with the yellow button.

Position of the PIP picture

> `MENU`   Call the PIP menu with the **MENU**-button.
>
> Select "Position"
>
> Select the symbols for the position
>
> `END`   Hide the PIP menu

Resolution of the PIP picture

> In the PIP menu, select "Resolution"
>
> Set to "large" or "small".

Split screen

> In the PIP menu, select "Type"
>
> Select the symbol for Split Screen.
>
> `END`   Hide the PIP menu

The picture on the right is the PIP picture and has no sound. The vertical line represents the color of the frame around the PIP picture.

Setting "iPIP"
Switch on PIP, call the PIP menu with the **MENU** button.
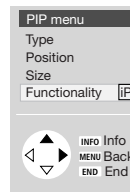
> Mark "Functionality"
>
> Select "iPIP"
>
> `END`   Hide menu

iPIP function:
In iPIP the TV picture currently displayed becomes the PIP picture. Select another program for the TV picture and keep your eye on the PIP picture. In this way you can temporarily "ban" commercials or parts of programs to the PIP picture. In iPIP, the frame round the PIP picture is orange.

> `# PIP`   PIP picture on/off

The PIP picture becomes a TV picture again when you switch off PIP.

13

Modes of operation

EPG mode

EPG is the electronic station guide for TV programs. With this system, you can easily find the programs that interest you (sorted according to time, day, topics and programs). You can memorize programs and program recordings.

A wizard is activated the first time you use EPG (not with DVB) which guides you through the necessary settings. Then run the data acquisition (see next page).

Using the EPG

Switch EPG on/off

EPG		Current: Fri 03.08./20:08
now soon 21:00 22:00 23:00 00:00 01:00 02:00 03:00 04:00 05:00 ...		
19:15 VOX	Zurück in die Vergangenheit	
19:30 ZDF	WISO	
19:30 BR3	Immer weiter, immer höher und dann?	
19:40 SAT1	echt wahr!	
19:40 RTL	Gute Zeiten, schlechte Zeiten	‑20:15
19:50 MDR	Mach dich ran	
20:00 ARD	Tagesschau	
20:00 HR3	Tagesschau	
20:00 NDR	Tagesschau	
20:00 WDR	Tagesschau	
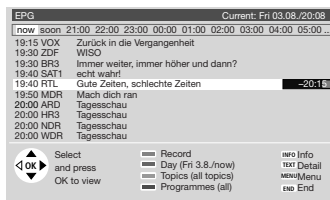
The first line is framed initially in green.
The **green frame** stands for **time and date**, with the green button you switch between time and day or, if the frame has a different color, back to the green frame. With the arrow buttons ◀ ▶ you select: now, later, the time or day for starting stations. The list of stations below is updated accordingly. With the buttons ▼ ▲ you mark a station you want to watch (now running), memorize or record.

EPG		Current: Fri 03.08./20:08
person. topics all - ... Hobby Sport Child Knowledge Music ...		
12:00 NDR	WunschBox	‑13:00
14:03 ARD	WunschBox	
20:45 MDR	Das deutsche Schlagermagazin	
21:00 NDR	Bi uns to Hus	
01:25 NDR	Bi uns to Hus	
12:00 NDR	WunschBox	
14:03 ARD	WunschBox	
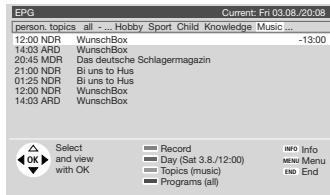
The frame turns yellow when you press the yellow button. The **yellow frame** means you can **select topics**. With the arrow buttons ◀ ▶ you choose between personal topics, all topics and the individual main topics such as Film, News, Show, Music etc. The list of stations below is updated accordingly. With the ▼ ▲ buttons, you mark a station you want to watch (a program currently running), memorize or record.

EPG		Current: Fri 03.08./20:08
Favorite programs all ARD ...		
14:03 ARD	WunschBox	‑15:00
20:45 MDR	Das deutsche Schlagermagazin	
14:03 ARD	WunschBox	
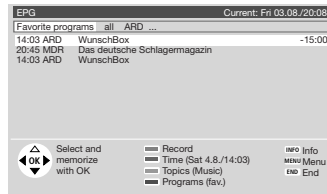
The frame turns blue when you press the blue button. The **blue frame** signifies **station selection**. Use the arrow buttons ◀ ▶ to choose between your favorite stations, all stations or the station just set. You can select another individual station by moving to "..." with ▶ , marking a station in the list and storing it with **OK**.

The respective current settings are shown next to the operating notes for the color buttons.

Direct input of time
You can also enter the time directly with the numeric keys of the keypad. After entering the first digit, the time is displayed first next to the symbol of the green button by asterisks and is then replaced by the entered numbers, e.g. 2100. If the entered time has already passed, its entry is used for the following day.

Watch or memorize a station
You memorize the station marked with the ▼ ▲ buttons by pressing the **OK**-button. A + sign is set in front of the program title for noting. At the start of the broadcast, this program is switched of or you see a message.

Programming a VCR or Digital Recorder (DR) recording
You prepare the program marked with the ▼ ▲ buttons for recording by pressing the red button. For "Timer recording" select DR (Digital Recorder") or VCR and whether a single recording is to be made or a serial is to be recorded. A red dot is displayed in front of the program title.
If a program is already marked by a red dot, you can delete the timer data again (the red dot disappears).

Calling detailed information
If detailed information about the selected station is available, you will see the **TEXT**-button displayed additionally. You can call the detailed information with this button.

Other functions in the EPG menu:
Call the EPG menu with the **MENU** key.
List of memorized programs
You will find the stations you have memorized in a list, also DVB radio stations.

Switch on TV at memo
You can have the TV switched on automatically from standby at the time of the memorized program. If you are not in at the time, a safety prompt makes sure the TV switches off again after 5 minutes.

Indicate/start memorized station
If the TV is already on when the memorized program starts you can have the start of the program indicated or the TV switched over immediately.

Short info lines
Short infos are broadcast for many programs. Set how many lines this information should have or switch the short info lines off.

EPG entry
If you want to start EPG operation, you can retain your last settings for topic and program selection or start with all topics and all programs.

Modes of operation

EPG settings
If you want to change the provider or want to have other programs evaluated, you can do this in the EPG menu.

Provider search

★ EPG   EPG on/off

MENU   Call EPG menu

EPG menu
List of memorized stations
Select provider/program ▶
Favorite programs
Select personal topics
Timer
Switch on TV when marked   yes
other ...

INFO Info
MENU Back
END End
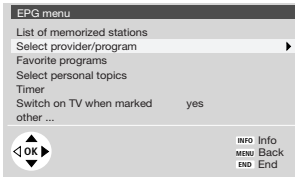
Mark "Provider/Select station"

Call

Select provider
3SAT
PRO7
RTL2
TV 5
TRT 1

△   Select provider   ▬ Provider search   INFO Info
◁ OK ▷   and confirm   ▬ Change provider list   MENU Back
▽   with OK   ▬ Program selection   END End
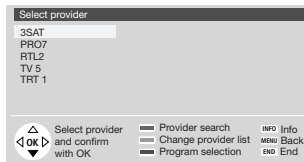
Start provider search (green button). This may take some time.

Mark the provider

OK   Save the provider

This is followed by a station search and a list of TV stations is displayed which transmit data. Move on to the provider selection with the **OK**-button.
If the stations offered are what you want, move on to the station selection with the blue button.

Performing station selection for EPG
Select the stations here for which information is to be collected.

Program selection: 3SAT
0 VIDEO	9+S–RTL	E	18 KIKA	
1+ARD	E	10+MDR 3		19 PHOENIX	E
2+ZDF	E	11 DSF		20 EUROSPRT
3+SAT.1	E	12 TM3		21 KABEL 1
4+RTL	E	13+PRO7	E	22 MTV
5 VOX		14+RTL 2	E	23 CNN INT.
6+S–RTL	E	15+WDR 3	E	24 HOT
7+N–TV		16+BR 3	E	25 TV 5
8 DSF		17+HR 3	E	26 VIVA

△   Select programs   ▬ + Mark   INFO Info
◁ OK ▷   and mark   ▬ Mark all   MENU Back
▽   with OK   ▬ Mark only   END End
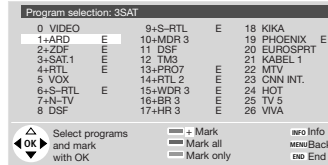
Stations marked by + are favorite stations. The provider supplies information for stations marked by E (terrestrial, cable and analog satellites) and D (digital), these are already marked (blue letters).

OK   Mark the station/Remove the marking

red: Only mark favorite stations

green: Mark all stations

yellow: Only mark this station

MENU   Back to the EPG menu

Switching data acquisition on/off

Mark "Data acquisition" in the EPG menu under "other"

Select data acquisition off/on

EPG menu
other ...
Memorized stations   first report
Data acquisition   off [on]
Short info lines   none
EPG entry   last setting

INFO Info
MENU Back
END End
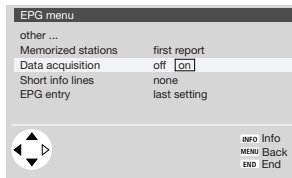
If, for example, you do not receive any EPG providers (analog TV) and no DVB is installed in the TV set, you should switch off the data acquisition.

Performing data acquisition
The data must be collected first after these settings or every time the TV is switched off. To do this, select the program which you have defined as a provider and leave it switched on for about one hour or switch the TV set to standby mode. The green LED lights up in addition to the red LED after about two minutes. Data acquisition takes about one hour, in sets with a DVB module a little longer. The data are automatically collected between 2 and 5 in the morning when the TV is switched off to standby.

Defining personal topics
You will find the programs that interest you faster when you define your personal topics. Mark "Select personal topics" in the EPG menu and put together your list of personal topics.

Select personal topics
Film	General music
News	Jazz
Show	Rock/Pop
Hobby	Classical
Sport	Folk/Easy listening
Child	Musicals/Opera
Knowledge	Other
Music	
Culture	

△   Select topics   ▬ mark all   INFO Info
◁ OK ▷   and mark with OK   ▬ Mark only   MENU Back
▽   END End
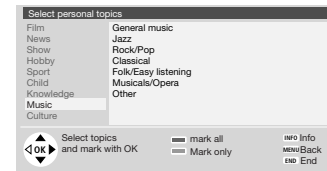
TV radio mode

Switch the TV radio mode on and off by pressing the **RADIO** button. If at least one satellite tuner and possibly a DVB module are installed in your TV set, you will be able to receive radio stations. If none of these additional modules is installed, you can only select the audio inputs and play back through these with the station table or the ▼ ▲ buttons.

Modes of operation

Teletext mode

Teletext transmits information such as News, Weather, Sport, Program Previews and Subtitles.

TEXT — Teletext on/off

```
1OO  1OO  ARD-Text      O1.O7.O1  1O:3O:42

        ARD-Text          ■      Teletext im Ersten

Letzte Meldung: Libyscher Botschafter
in London schließt Entschädigung für
Lockerbie-Opfer nicht mehr aus
Fußball: Rolf Hüssmann soll neuer
Sportdirektor beim VfB Stuttgart
werden . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 223
1O.3O              Ein Zwilling zu viel . . . . . . . 314
12.OO                      Tagesschau um zwölf

   ■ tagesschau. . . . 11O ■ TV Guide. .  3OO/4OO
   ■ Wetter. . . . . . . . . 17O ■ Kultur. . . . . . . . .  5OO
   ■ Sport. . . . . 2OO/6OO ■ TXT-Quiz. . . . . . .   555
   ■ Lotto/Toto. . . . .  666 ■ Wirtschaft. . . . . . 7OO
   ■ Index. . . . . . . . . . 1O1      Impressum. . . . . 1O7
 —        +          Inhalt          tagesschau
▲ ▼ Page selection
```

Many stations use the TOP operating system, some use FLOF (e.g. CNN). Your TV supports both these systems. The pages are divided into general topics and topics. After switching on the teletext, up to 3500 pages are stored for fast access.

Selecting pages with the colored buttons
The colored bars (in TOP) or the colored writing (in FLOF) in the last line but one show you which colored buttons to use to scroll to general topics and topics.

```
   ■ Lotto/Toto. . . . .  666 ■ Wirtschaft. . . . . . 7OO
   ■ Index. . . . . . . . . . 1O1      Impressum. . . . . 1O7
 —        +          Inhalt          tagesschau
▲ ▼ Page selection
```
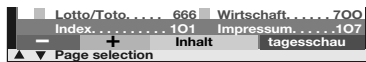
red: back to previously viewed page (not with FLOF)

green: forward to next page (not with FLOF)

yellow: to the next topic (only in TOP and FLOF)

blue: to the next topic (only in TOP and FLOF)

More functions for page selection

OK — Mark a specified page number on the page (Page Catching)

```
werden . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 223
1O.3O              Ein Zwilling zu viel . . . . . . .  314
12.OO                      Tagesschau um zwölf

   ■ tagesschau. . . . 11O ■ TV Guide. .  3OO/4OO
   ■ Wetter. . . . . . . . . 17O ■ Kultur. . . . . . . . .  5OO
   ■ Sport. . . . . 2OO/6OO ■ TXT-Quiz. . . . . . .   555
   ■ Lotto/Toto. . . . .  666 ■ Wirtschaft. . . . . . 7OO
   ■ Index. . . . . . . . . . 1O1      Impressum. . . . . 1O7
 —        +          Inhalt          tagesschau
▲ ▼ Page selection        OK  view
```

OK — Launch

OK — Scrolling in stored sub-pages. In the bottom line you will see which sub-pages you can already launch.

```
 —        +          Geld          Optionen 2
▲ ▼        ◀ ▶  1 2 3 4 5 6 7 8 9 1O
```
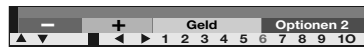
INFO — Launch contents page 100

```
1OO  1OO  ARD-Text      O1.O7.O1  1O:3O:42

        ARD-Text          ■      Teletext im Ersten
```
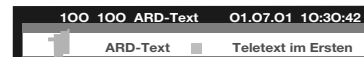
The TOP table is a general list of teletext. You can only launch the table on channels which use the TOP operating system.

```
Table of Pages (TOP)
Übersicht              Wetter
tagesschau             Vorhersage
Wetter                 Städte
Sport 1                Regional
TV Guide               Reisen
ARD heute              int. Städte
ARD morgen             Biowetter
FS-Sendungen
TV Guide 2
Kultur
Gesellschaft
weitere . . .

▲     Select page and
◀OK▶  press OK               MENU Back
▼     to view                END  End
```

OK — Launch the TOP table

OK — Mark a general topic

OK — Select the Topics column

OK — Mark menu items

OK — Display page

1 2 7 pqrs — Enter the page number directly

Displaying teletext pages

0 AV — Stop self-turning pages (HOLD)

9 wxyz — zoom: top half – bottom half – normal size

PIP — TV picture on/off (Split text)

```
1OO 1OO ARD-Text    O1.O7.O1 1O:3O:42
      ARD-Text    ■    Teletext im Ersten
Letzte Meldung: Libyscher Botschafter
in London schließt Entschädigung für
Lockerbie-Opfer nicht mehr aus
Fußball: Rolf Hüssmann soll neuer
Sportdirektor beim VfB Stuttgart
werden . . . . . . . . . . . . . . . . . . . . . 223
1O.3O         Ein Zwilling zu viel . . . . . 314
12.OO              Tagesschau um zwölf
■ tagesschau. . . . 11O ■ TV Guide. . 3OO/4OO
■ Wetter. . . . . . 17O ■ Kultur. . . . . . 5OO
■ Sport. . . 2OO/6OO ■ TXT-Quiz. . . . 555
■ Lotto/Toto . . 666 ■ Wirtschaft. . . 7OO
■ Index. . . . . 1O1   Impressum. . . . 1O7
 —    +    Inhalt    tagesschau
▲ ▼ Page selection
```

Programming timer recordings
If the remote control is set to "TV" (no equipment combination), you call the program pages of the current station in teletext mode with the Record button •. Select the program you want to record with ▼ ▲ and confirm with **OK**. For "Timer data" select DR (Digital Recorder) or VCR and whether a single recording is to be made or a serial is to be recorded. Confirm with **OK**.

Teletext menu

MENU — Launch teletext menu
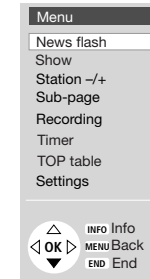
Here you will find functions such as "New message", "Reveal" hidden information, switch to other, enter 4-digit sub-page number directly, program video timer recordings via teletext and launch the Timer overview.

```
Menu
News flash
Show
Station –/+
Sub-page
Recording
Timer
TOP table
Settings

   △      INFO Info
◁ OK ▷   MENU Back
   ▽      END  End
```

In the settings you will find menus to define the preview pages, subtitle pages and personal teletext pages.

LOEWE Dialog

The TV has simplified operation for the most important functions, the LOEWE Dialog. A few key clicks give you the information you want.

You should have already made a few settings before using the LOEWE Dialog to provide selection possibilities.

You should have made the EPG settings described on page 15 and run the EPG data entry. The Digital Recorder archive should also already contain recordings. You should have defined a few personal teletext pages. In all these cases you then have a useful selection.

No LOEWE dialog is displayed with NTSC reception.

You call the LOEWE Dialog with the arrow buttons on the remote control when no menu is displayed.

Press one of the arrow buttons ▲ ▼ ◄ ► for about 1 second.
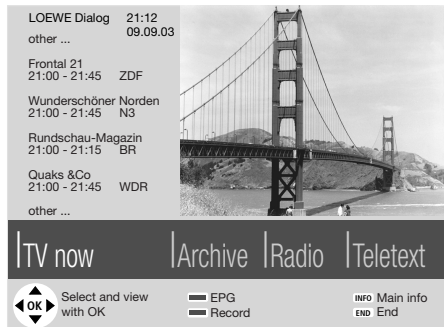
The TV program just selected is shown as a small picture (the live picture).

The blue bar shows you the selectable functions. The function on the left is active. You can move the function you want to perform to the left or right with the arrow buttons ◄ ► .

Above the selected function you see a selection which you can navigate with the arrow buttons ▲ ▼ and view with **OK**.

The selection of programs currently running acquired by the EPG system is displayed in **TV-now**. If no EPG is received, a **program info** of the station currently being received is displayed.

With **Archive** – the selection of recorded programs in the DR archive is displayed. If no Digital Recorder is installed, the **Index** is displayed in place of the archive, that is the index with the selection of initial letters.

With **Radio** – the selection of programs of the satellite radio is displayed. If you have switched over to TV radio mode, LOEWE Dialog cannot be called. If you do not receive satellite radio (no satellite tuner/DVD module), **Favorites** are displayed in place of Radio, that is favorite programs you have defined.

With **Teletext** – the selection of personal teletext pages is displayed.

This is how you select with the example of the "TV now" function:
Mark the desired station with the arrow buttons ▲ ▼ , the name turns blue. Other stations can be displayed with "others...".
Press the **OK** button to watch the station.

You can call LOEWE Dialog with the ▲ ▼ ◄ ► buttons so that the desired function is ready for selection on the left:

Call TV now ▲

Call Archive ▼
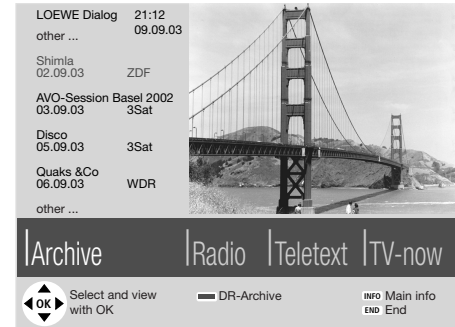
Call Teletext ◄
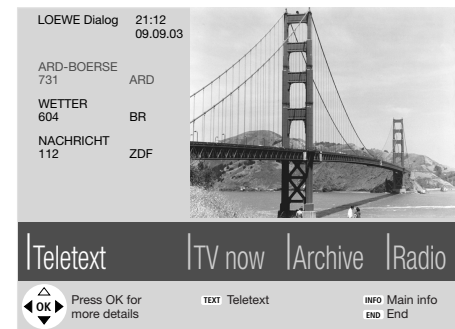
Call Radio ►
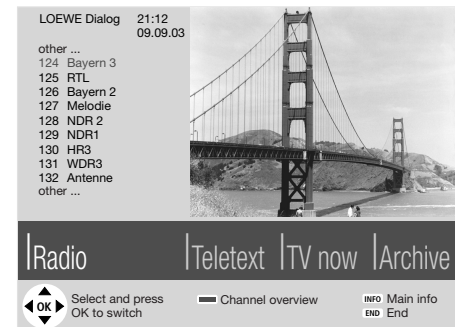
Operation of additional equipment

Video mode

You can operate Loewe video recorders and DVD players with the video control bars even if they are hidden. The VCR's must be connected to the Euro AV sockets (Scart) and logged in under the "Connections" menu.

Digital Link must be switched on on the Loewe video recorder. Only then can you use the control bar. You also need Digital Link or Digital Link Plus for timer recordings of satellite programs controlled by the TV set.

You can display up to three control bars but they are only displayed by logged in VCR's and DVD players.

⊞ Show/hide video control bar:

DVD	STOP
⏻ ◀◀ ■ ▶ ▶▶ ⏸ ⏮ ⏭

VCR	STOP
⏻ ◀◀ ■ ▶ ▶▶ ⏸ ● AUX

▲
◁ OK ▷   INFO Info
▽   MENU Menu
           END End
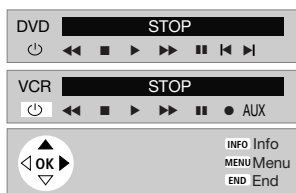
Select the video control bar if for example several VCR's or a DVD player are connected.

Select function

⏻ Switch VCR/DVD on/off

AUX Select video input (Euro-AV socket) on the VCR

◀◀ Rewind (only for VCR) or Scan in rewind

■ Stop (STOP)

▶ Playback (PLAY)

▶▶ Fast forward (only for VCR) or Scan in fast forward

⏸ Pause (PAUSE)

⏭ Next chapter (only for DVD)

⏮ Previous chapter (only for DVD)

● Record

OK Perform selected function

When you start a recording, the program you have just selected is recorded. You cannot switch over to another channel, it is locked. You can only switch over when the recording has finished.

Exceptions:
1. You have installed several tuners (not PIP tuners) in the TV set, then you can watch another channel with the second tuner.
2. You can also watch the signal via an AV connection (e.g. DVD player or a second VCR).
3. In a VCR with Digital Link Plus the VCR tuner is used for the recording (not for satellite programs).

Video menu

MENU Show the Video menu

Video menu
Timer ▶
Recording
DR archive
Connections
Settings

△   INFO Info
◁ OK ▷   MENU Back
▽   END End
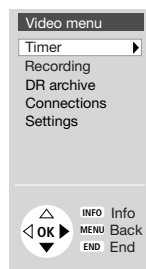
The Video menu provides you with the following options:

You can change and delete timer data or program new recordings in the "Timer" menu. The "Record" menu gives you the option for timer programming by EPG, teletext or manually.

You can call the archive list with "DR Archive" if a Digital Recorder is built in.

In the "Connections" menu you can log other AV equipment on or off. In the "Digital Link Plus transfer" menu the station data of the TV set (not satellite stations) are transmitted to the Digital Link Plus VCR.

In the Settings menu you can enter the record lead and follow on time and serial recording tolerance.

Digital Link Plus VCRs have the possibility for transferring the station data from the TV set to the VCR via the Euro-AV cable (not for satellite stations). Every time you change the station memory of the TV, you are asked whether you want to make a data transfer.

The receiver unit of the VCR is always used for recording with a Digital Link Plus video recorder (not satellite stations) and the tuner of the TV set is available for watching TV.

Loewe VCRs also have **Digital Link**, a system for controlling Loewe VCRs via the Euro-AV cable. If the Loewe VCR only has Digital Link, the TV tuner is used for recording. If you have installed your Loewe VCR in a concealed place, you can operate the Loewe VCR with the remote control.

Digital Link must be switched on on the video recorder.

Only use fully wired Euro-AV cables, otherwise Digital Link or Digital Link Plus will not work.

Operating additional equipment

Logging in equipment
You have already logged in and connected all connected devices (video recorders, camcorders, DVD player, DVD recorder, Loewe audio system, Pay-TV decoders, Loewe home automation, door intercom) with the connection wizard when you put it into operation for the first time. If you want to connect further or different devices, you have to call the connection wizard in the TV menu – "Connections".

Connecting video/DVD recorders
In addition to the connection via the Euro-AV socket, you also have to connect the antenna (only for antenna or cable systems) through the video/DVD recorder to the TV set. The antenna signal is then available both to the tuner in the VCR and the TV tuner.
If a DVB-T module is installed, connect the VCR to the IN socket of the DVB-T module using the antenna cable, if a DVBT 2 Basic tuner is installed via an antenna splitter, also connect the terrestrial tuner.
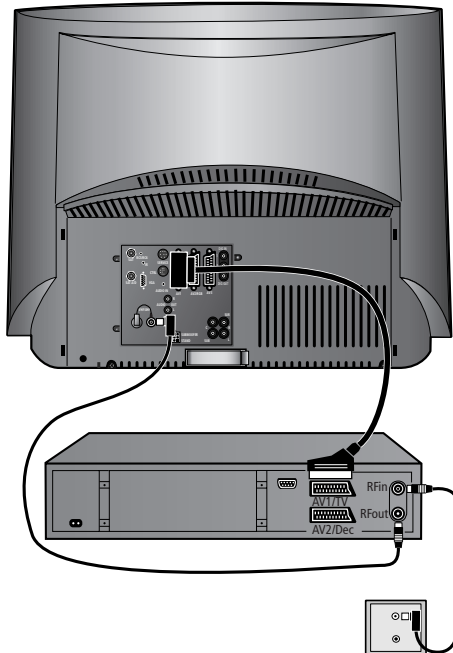
Search for and store the VCR station (if there is no Euro AV cable)
Switch on the test station on the VCR or insert a recorded tape and start playback.
Then call program 0 on the TV set (set ex-factory to channel 36). Select the first menu item (VCR) in the AV selection list.
To prevent "normal" TV stations being found in the search, pull out the antenna plug from the antenna input of the VCR temporarily (the cable to the antenna system).

Call the TV menu

Mark "Settings"

Call

Mark "Stations"

Call

Mark "Manual setting"

Call

Mark "Range" and Select "UHF"

Mark "Channel"

Enter channel 30
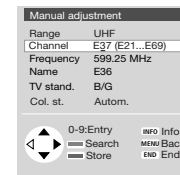
Search for channel (blue button)

When the station is found:

Store (red button)

A list of the stored stations is displayed
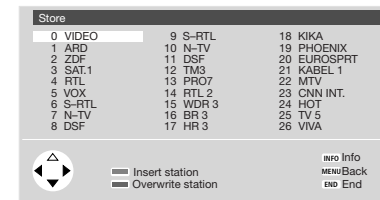
Overwrite program (program 0 marked)

Hide menus

Plug the antenna plug back into the VCR.
If you now get interference because a TV station is transmitting on the same channel as the VCR station, you have to change the transmitting station on the VCR (see operating instructions of the VCR) and search for the VCR station on the TV again.

Operating additional equipment

Video playback

There are several ways to see the picture and hear the sound of the VCR, DVD player or camcorder on your TV:

1. Use the Euro-AV sockets on the TV and VCR. This is the best way to get a good picture and sound quality. For camcorders and digital cameras it is best to use the front sockets AVS.
   If you are playing back from a VCR with Digital Link Plus, the VCR picture is shown on the current station slot.
   If you are playing back from a standard VCR, DVD player, camcorder or digital camera, select the AV socket to which the video signal is connected in the AV selection list (button **0 AV**) or the station table.
   Video recorders emit a switching voltage during playback which the TV set can decode (can be activated in the connection wizard or set Settings – AV Settings – Allow switching voltage to "Yes" in the TV menu). Then the VCR picture is shown on the current station slot as in Digital Link Plus VCR's.

2. You can also control logged-in Loewe VCRs and DVD players with the video menu bar. See page 18 for more details.

3. Use the antenna connection between the VCR and the TV. The sound is only transmitted in mono. Select the first menu item, e.g. VIDEO, in the AV selection.

Calling an AV program in the AV selection list

| **0 AV** | Call AV selection list |

| AV Selection | VIDEO AV1 AV2 AV3 AVS |

Select AV socket or VIDEO for VCR station.

Now you will see the playback from the connected AV unit.

Calling an AV in the station table

Call the station table

Channel overview: TV		Numerical
AVS	6 S–RTL	
AV3	7 N–TV	
AV2	8 DSF	
AV1	9 TM3	
0 VIDEO	10 PRO7	
1 ARD	11 RTL 2	
2 ZDF	12 WDR 3	
3 SAT.1	13 BR 3	
4 RTL	14 HR	
5 VOX	15 MDR 3	
	0 ... 9 Select program:	
Select and press OK to proceed	DR archive Change programs Favourite programs Change sorting	INFO Info MENU Menu END End
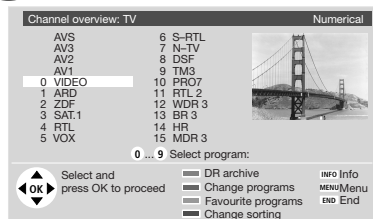
In the numeric sorting you will always find the AV sockets at the top of the list without station numbers.

Mark the AV socket

Call the marked AV socket

Now you will see the playback from the connected AV unit.

IR Link

Your TV set has a socket for an IR Link (IR) and a cable with a jack and IR emitting diode is also supplied.

This enables you to control most other remotely controlled devices, such as a concealed d-Box or a video from a different manufacturer, by using the TV set's remote control. Insert the jack of the infrared emitting diode cable into the IR socket on the back of your TV. The infrared emitting diode on the end of this cable must be placed in front of the concealed device. For transmission, the TV must be switched on. You can order a nap strip from your dealer (Loewe spare parts no. 29337.001) to help lay the cables. The burl tape is self-adhesive; remove the protective film. Affix the burl tape on the wall of the shelf or cabinet and press the cable into the burl tape. The burl tape can be split Into several pieces using a knife. To operate the concealed video recorder, point the infrared remote control at the TV set.

Operating additional equipment

Operating other Loewe equipment with the RC3 remote control
You can operate various Loewe equipment with this remote control. Further information can be found on the next page.
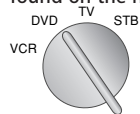
Select VCR, DVD or a Set Top Box with the switch.

Default options are Loewe video recorders, Loewe DVD recorders and the d-box common in Germany for STBs (Set Top Box). For operation of a Loewe DVD player the remote control must be switched over (see next column).

Use the drive buttons in TV- and STB position for VCR, DVD or Digital Recorder
You can switch over the six drive buttons both for TV and STB for operating a VCR or DVD player/recorder. Operation of the built-in Digital Recorder Plus is specified ex-factory.
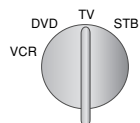
First turn the switch to the main function TV or STB.

Press the **END** and **∗ EPG** buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.

Enter the numbers 988 one after the other. The display again flashes twice.
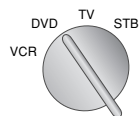
Now turn the switch to the required function for the drive buttons. DVD, VCR or TV if the Digital Recorder is to be used.

Press the **# PIP** button to complete the setting. The display flashes twice.

Switching over the remote control for operating equipment of other manufacturers or for a Loewe DVD player
You can switch over the remote control for VCRs, DVD players and Set Top Boxes if the infrared code of the equipment type is listed in the code list or is in the code memory of the RC3.
Switching over is done on the one hand by entering a four-digit code and on the other hand the remote control suggests codes which you can test on the equipment.
If you cannot find the equipment in the code list, try a suggestion from the remote control. Even if the manufacturer of the equipment is included in the code list, it is possible that it cannot be operated. Not all functions on the RC3 are available for this equipment.
Switching over the remote control – with code input – e.g. to the Loewe DVD player
Look for the code number of your equipment in the code list. The list is sorted according to equipment type – DVD, VCR, STB – and alphabetically according to manufacturer. You will find one or more code numbers next to the manufacturer name.
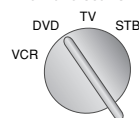
Using the switch select whether you want to switch over to a VCR, DVD player or a Set Top Box.

Press the **END** and **∗ EPG** buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.

Enter the four numbers from the code list one after the other (0539 for Loewe DVD player). The display flashes once after each number is entered. Twice after the last number.
If the number was incorrect, the display flashes for longer. The code number has not been accepted.

Once the code has been accepted with two flashes, you can test the functionality of the device you have just programmed.
If the device cannot be operated or is difficult to operate, repeat the code input with the next code from the list. If no other codes are specified for this manufacturer, try a code suggested by the remote control.
Switching over the remote control – with the suggestions by the remote control
Switch on the device to which you want to set the remote control. Standby is not sufficient!
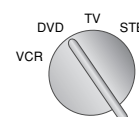
Using the switch select whether you want to switch over to a VCR, DVD player or a Set Top Box.

Press the END and **∗ EPG** buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.

Enter the numbers 991 one after the other. The display flashes once after each number is entered.

Press the **# PIP** button to select the first code.

Hold the remote control pointed towards the device you want to switch over to. Watch the device.

Now press the ▶ (Play) or ⟳ (On/Off) button on the remote control. Wait a moment for the reaction of the device. If the device does not react, the code is incorrect.

Press the **# PIP** button to call the next code.

Press the ▶ (Play) or ⟳ (On/Off) button again.

If the device reacts, press the **∗ EPG** button to confirm the code.

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Operating additional equipment

Switching over the remote control for operating a DVD recorder/player

Turn the rotary switch to ″DVD″.
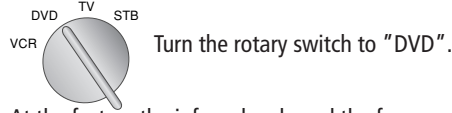
At the factory the infrared code and the functionality is preset for the Loewe DVD recorder, see previous page for how to switch over to the DVD player.

Functions for the Loewe DVD player

Change-over switch for operation of TV, VCR, DVD or Set Top Box

Sound off/on (mute)

Set marker

Menu bar on, select camera position active

User interface of loaded DVD on

Call AV selection (TV)

DVD menu on; in menu: close menu

User interface of loaded DVD on

V–/V+ volume quieter/louder

in menu: select

Beginning of chapter or previous chapter /search back

Pause /single frame, slow motion

Switch DVD player on/off – in standby

Menu bar on, select chapter active

Menu bar on, Repeat active

Menu bar on, Zoom active

Select Chapter; in menu: enter digits

Set picture format (TV)

Status display on; in menu: close menu

Menu bar on, previous function active; in menu: info on/off

Title/Chapter Table; in menu: cofirm the menu selection

Next chapter /search forward

Playback

Stop

Switching over the remote control for operating a video recorder

Turn the rotary switch to ″VCR″.
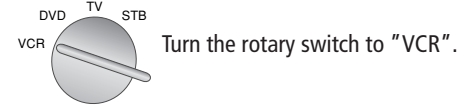
At the factory the infrared code and the functionality is preset for the Loewe video recorder.

Functions for the Loewe video recorder

Change-over switch for operation of TV, VCR, DVD or Set Top Box

Sound off/on (mute)

Display/close Timer list

Display/close ShowView timer Menu

Switch to Long Play /Standard Play

Call AV selection (TV)

Call up VCR Menu

P+/P– select program up/down

Reverse play /in menu: select/set

V–/V+ volume quieter/louder

▲ / ▼ manual tracking /in menu: select position

Rewind /search backwards

Start recording

Pause (still frame) /frame-by-frame advance

Switch recorder on/off – in standby

Select picture and sound source

Select sound /station language selection

Counter reset

Select station directly /in menu: enter digits

Set picture format (TV)

Status display /in menu: close menu

Status display

Slow motion forwards /in menu: select/set

Call up station list /in menu: call up/confirm

Fast forward /search forwards

Start playback

Stop tape

What to do when...

Problem	Possible cause	Remedy
Various menu items cannot be called (shown in gray) or the menus for the EPG and teletext modes of operation cannot be called	″Simplified control″ activated in main information	Deactivate ″Simplified control″ in the main information. Press the **INFO**-button, select ″Select control level″ and call with **OK**. Set the ″Simplified control″ to ″no″.
Record and Timer are not displayed in the video menu	No VCR or DVD recorder logged in and no digital recorder installed	Log in VCR in the TV menu – Connections.
″Connections″ for example cannot be called in the video menu (grayed out)	a) A timer recording is currently in progress b) You are recording from the TV set with the video bar	a) Wait until the timer recording has ended or clear the timer b) Wait until you stop recording
The ″Stations″ item in the TV menu and the ″Autom. channel search″ item in the main information cannot be called	The child lock is activated. If these menus were accessible, children could still set the programs.	Deactivate program-related child lock: Switch off child lock or enter PIN in the TV menu – Settings.
Control of the Loewe VCR with the video control bar and the timer does not work or does not work properly	a) The VCR′s Digital Link function is not activated or not possible b) Euro-AV cable not connected c) Video recorder not logged in	a) Activate Digital Link in the VCR (see operating instructions of the VCR) b) Connect the Euro-AV cable c) Log in the VCR
General problems with connecting external devices through an AV input	a) The device is not logged in in the ″Connections″ menu or is connected differently to shown in the connection diagram b) The AV norm is set incorrectly c) The AV signal is set incorrectly	a) Compare the connection diagram with the actual installation in the ″Main information″ under ″Connections″ and connect as shown if necessary b) Set the correct norm c) Set the correct AV signal If ″Automatic″ is set for AV norm or AV signal, this can lead to wrong detection in the case of non-standardized signals. In this case the norm and signal must be set according to the operating instructions of the external device.
Picture shifted horizontally	The TV set is in the Southern hemisphere (e.g. Australia, South Africa)	Set the horizontal position: a) Call the main information with **INFO** b) Call Index – Set picture – Horizontal displacement c) Set horizontal picture position

What to do when...

Problem	Possible cause	Remedy
Connection of a decoder does not work or does not work properly	a) The signal is not decoded because the correct decoder programs have not been selected in the TV menu – Connections b) The sound is missing in decoder mode because the wrong decoder sound is allocated in the TV menu – Connections	a) Follow the instructions in the TV menu – Connections again and select the appropriate decoder programs b) Follow the instructions in the TV menu – Connections again and select the right sound source (decoder, TV or Autom.), see instructions of the decoder
No sound through the TV loudspeakers	a) The item "Sound from..." in the Sound menu under "Sound" is not set to "TV" b) Nothing is inserted in the 9-pole cube socket on the back of the set	a) Change the setting to "TV" b) Either a dummy plug with bridges, Loewe Concertos, the transmitter for the home automation or a subwoofer must be plugged into the cubic socket
All menus appear in the wrong language	The wrong menu language has been set	Set your menu language: 1. Switch off picture-in-picture (PIP) and switch off all on-screen displays (**END** button) 2. Call the TV menu (**MENU** button) 3. Select the last menu item and press **OK** 4. Select the last menu item on the last page and press the **OK** button 5. Now select the right language and... 6. ...confirm with **OK**
Digital Link Plus does not work	a) The VCR has not been logged in as a Digital Link Plus device or has been connected to the wrong socket b) The Euro-AV cable is not fully wired (Pin 10 not wired) c) Some video recorders can only take over the stations from the TV in initial installation d) All or some terrestrial or cable stations are stored at station slots ≥ 99	a) Log in the Digital Link Plus VCR under "Connections" and connect according to the diagram b) Change the Euro-AV cable c) Reinstate the original state (ex-factory) of the VCR (see operating instructions of the VCR) d) Sort the terrestrial and cable stations so that they are between 1 and 99
Various characters are displayed incorrectly in teletext	The wrong character set is set in the teletext menu	Set the right character set: Teletext menu – Settings – Character set – Standard or the appropriate character set.

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Technical data

Mechanical data

Articos 32 HD/DR+	Part number 63450.42
Dimensions (cm)	86x67,5x57,5 (wxhxd)
Weight (kg)	64
Picture tube	Real Flat-Line HD
Format	16:9
Screen size	81 cm, visible 76 cm

Electrical data

Chassis name	Media Plus (Q2550H)
Image refresh frequency	PAL/SECAM 100 Hz
	PAL 60/NTSC 60 Hz proscan
Full Digital 100	AMD/DMI/DMM/DNC
Power supply	220V up to 240V/50–60Hz
Power consumption	in operation approx.170 Watt
	Standby <2 Watt
	Sat-Record-Mode <60 Watt
Ambient temperature	5º – 40º Celsius
Tuner VHF/UHF/ cable	
(Hyperband 8 MHz)	42 MHz – 860 MHz
Station memory*	220/with DVB: 1470
TV norms	B/G, I, D/K, L, L', M, N
Color norms	PAL, SECAM,
	NTSC, NTSC 4.43
Sound norm	FM, AM, Nicam
	mono/stereo/2-sound
Audio rated output	2 x 15 Watt / 4 Ohm
Audio music output	2 x 40 Watt / 4 Ohm
Teletext	HiText (Level 2.5)

Connections

Mini-DIN (Front)	Video IN	Y/C (S-VHS/Hi8)
Cinch (Front)	Video IN	CVBS (VHS/8mm)
Cinch (Front)	Audio IN	L/R
Jack 6.3 mm (Front)	headphones	32–200 Ohm
IEC sockets 75 Ohm		antenna/cable/DVB-T*
F-socket 75 Ohm*		SAT and SAT A/D
AV 1	Video IN/OUT	Y/C (S-VHS/Hi8)
	Video IN/OUT	CVBS (VHS/8mm)
	Audio IN/OUT	L/R
AV 2	Video IN/OUT**	Y/C (S-VHS/Hi8)
	Video IN/OUT	CVBS (VHS/8mm)
	Video IN	RGB
	Audio IN/OUT	L/R
AV 3	Video IN	Y/C (S-VHS/Hi8)
	Video IN/OUT***	CVBS (VHS/8mm)
	Video IN	RGB or YUV
	Audio IN/OUT***	L/R
Cinch	Audio OUT	level adjustable/fixed
Jack 3,5 mm	Audio IN	L/R
Jack 3,5 mm		IR-Link OUT
Jack 2,5 mm*		RC5/RC6 OUT
D-Sub 15-pole*		VGA IN
9-pole cube socket		home automation or
		Loewe active loudspeaker system
Mini-DIN 8-pole*		Service/audio system (L-link)
Cinch*	Centre OUT	Centre Signal
Cinch*	Subwoofer OUT	LFE Signal
Cinch*	Surround OUT	L/R
Cinch	Dig. Audio IN 1	Multichannel Signal
Cinch	Dig. Audio IN 2	Multichannel Signal
Cinch	Dig. Audio OUT	Multichannel Signal

*   depending on equipment and type of set or retrofittable

**   OUT only in Digital Link Plus video recorders

*** OUT monitoring picture and sound

Accessories available

Motor Unit
A table turning foot for your Articos which can be rotated by ± 40º. Turning is implemented with the remote control.

Cube Systems 1 and 2
Rack systems with four video screens and integrated Motor Unit. Each rack has a cable for an IR Link.

Loewe audio systems and active loudspeaker systems
A combination of a Loewe TV set, a Loewe audio system and a Loewe loudspeaker system provides an excellently adapted Home Cinema system with the advantages of high operating comfort, matching design and adapted technology.

Home automation
Control of light switches, dimmers, blinds etc. with the TV menu.

RC1 Remote control
Bi-directional system remote control to operate all Loewe products, such as TVs, VCRs, DVDs and audio systems.

Single-/Twin-Sat-Tuner und Digital-TV Decoder (satellite or terrestrial)
Your TV set can be retrofitted with an integrated SAT 6 or TWIN-SAT 6 and a digital TV decoder. A combination of the two components enables you to receive analogue and digital satellite programmes.
The Digital TV 1 Sat / Twin Sat and the Digital-TV upgrade kit 2 S-Basic upgrade kit enables you to receive all unencoded digital satellite programmes.
All uncoded digital terrestrial programs can be received with the Digital-TV upgrade kit 2 T-Basic.
The following modules are available for reception of coded (and uncoded) digital TV programs (e.g. Premiere):
The Digital-TV upgrade kit 2 Sat/Twin-Sat-CI P for satellite reception and the Digital-TV upgrade kit 2 T-CI for terrestrial Digital-TV programs. In addition, the Digital TV upgrade kit 2 T/S-CI is available for reception of satellite and terrestrial coded TV programs.
All modules are integrated in the TV set and are operated by the remote control/menu control of the TV.

Dolby Digital Decoder
For multichannel playback from DVD players in Dolby Digital cinema quality. A Dolby Digital is integrated.

Loewe Video Recorders
Loewe video recorders are specially adapted in design, user guidance and technical characteristics to Loewe TV sets with the result that daily handling of the equipment is made much simpler.

Loewe DVD Players and DVD Recorders
The DVD Players and DVD Recorders from Loewe are characterized by form and color which match Loewe TV sets, adapted user guidance and technology. A combination of the two devices forms a system which offers many advantages.

Service addresses

Australia
International Dynamics Australasia Pty Ltd.
129 Palmer Street
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Tel. 03–94 29 08 22
Fax 03–94 29 08 33

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Loewe Opta Benelux NV/SA
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Tel. 0902–88 00 2
Tel. 03–270 99 30
Fax 03–271 01 08
Loewe Opta Nederland B.V.
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Tel. 0900–20 20 180
Fax 030–280 33 27

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H–2040 Budaörs
Tel. 023–415 637/121
Fax 023–415 182

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RIF TRADING LTD
29 Izhak Sade Street
ISR–Tel Aviv 67213
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Lago del Perlar, 12
I–37135 Verona
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Fax 055–82 51 622

Malta
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Flamingo Complex
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377, Rue Mustapha El Maani
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Tel. 02–22 20 308
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CableCom AS
Østre Kullerød 5
N–3214 Sandefjord
Tel. 033–48 33 48
Fax 033–44 60 44

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ul. Boh. Getta Warszawskiego 18
PL–81-609 Gdynia
Tel./Fax 058–62 43 467 / 058–62 45 009

Portugal
Videoacustica
Comercio e Representacoes de
Equipamentos Electronicos S.A.
Estrada Circunvalacao
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P–2795-632 Carnaxide
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Fax 21–41 88 093

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Fax 057–310 442

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THE SOUNDLAB PTY LTD
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Tel. 01–732 15 11
Fax 01–730 15 02

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Enkay Elektronik Servis Müdürlügü
Alemdag Cad: Site Yolu No.: 10
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Tel. 0216–523 15 94/96
Fax 0216–523 16 58

The code number 3001 cancels out a secret code and with it the child lock. Please keep it in a safe place.

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Codelist

Loewe					
DVD-Player					0539
DVD-Recorder					0741
STB					1127
VCR					0866

DVD					
3DLAB					0539
A-Trend					0714
Acoustic Solutions					0730
AEG				0788	0770
Aiwa				0641	0695
Akai	0790	0788	0690	0716	0713	0705
AKI					0718
Akira					0699
Alba	0717	0699	0713	0723	0695
All-Tel					0790
Amitech					0770
Amstrad					0713
Apex Digital					0672
Audiosonic					0690
AWA					0730
Black Diamond					0713
Blaupunkt					0717
Blue Sky	0699	0695	0713	0672	0651
Boman					0783
Brain Wave					0770
Brandt				0651	0551
Bush	0699	0690	0689	0717	0713	0818
				0695	0831	0723
C-Tech					0768
Cambridge Audio					0696
Cambridge Soundworks					0696
CAT					0699
Celestial					0672
Centrex				0672	1004
Centrum					0713
cineULTRA					0699
Classic					0730
Clatronic					0788
Clayton					0713
Coby					0730
Conia					0672
Crown			0770	0651	0690
Cybercom					0831
CyberHome				0714	0816
Cytron			0716	0651	0705

Daewoo		0770	0705	0714
Daewoo International				0699
Dansai			0770	0783
Dantax				0723
DEC			0699	0818
Decca				0770
Denon			0490	0634
Denver			0699	0788
Denzel				0665
Diamond		0651	0768	0723
Digihome				0713
digiRED				0717
Digitrex				0672
DiK				0831
Dinamic				0788
DiViDo				0705
DK digital				0831
DMTECH			0783	0790
Dragon				0831
Dual	0665	0651	0713	0730	0783	0790
						0831
E-Boda				0723
Eclipse				0723
Electrohome				0770
Elin				0770
Elta		0690	0770	0788	0790
Emerson			0591	0705
Enzer				0665
Ferguson				0651
Finlux		0741	0770	0783
Firstline				0651
Funai				0695
GE				0717
Global Solutions				0768
Global Sphere				0768
Go Video				0783
GoldStar			0591	0741
Goodmans	0651	1004	0790	0690	0783
				0723	0818
Graetz				0665
Grandin				0716
Grundig	0539	0695	0651	0775	0705	0790
				0713	0670	0723
Grunkel				0770
H&B			0818	0713
Haaz				0768
Hanseatic				0741

HCM			0788
HDT			0705
HE			0730
Henß			0713
Hitachi	0664	0665	0573
Hiteker			0672
Home Electronics			0730
Hyundai			0783
Ingelen			0788
ISP			0695
Jeken			0699
JMB			0695
JVC	0623	0539	0503	1901	1940
Karcher			0783
Kendo			0699
Kenwood		0534	0490	0737
Kiiro			0718	0770
Kingavon				0818
Kiss				0665
Koda				0818
Koss				0651
Lawson		0705	0716	0768
Lecson				0696
Lenco	0699	0651	0770	0818
Lenoxx				0690
Lexia				0699
LG		0591	0741	1906
Lifetec				0651
Limit			0716	0768
Loewe			0539	1922
LogicLab				0768
Logix			0705	0783
Lumatron				0705
Luxman				0573
Luxor				1004
Magnavox			0503	0818
Magnex				0723
Manhattan				0705
Marantz				0539
Mark				0713
Matsui			0651	0695
MBO			0690	0730
MDS				0699
Medion	0651	0783	0716	0831
Memorex				0831
Metz			0571	0713
MiCO				0723

Brand	Codes
Microboss	0718
Micromaxx	0695
Micromedia	0503 0539
Micromega	0539
Microsoft	0522
Microstar	0831
Minax	0713
Minoka	0770
Mitsubishi	0713
Mizuda	0818
Monyka	0665
Mustek	0730
Mx Onda	0651 0723
NAD	0741
Naiko	0770
Neufunk	0665
Nordmende	0831
Omni	0690 0699
Onkyo	0627 0503
Optimus	0571
Orava	0818
Orion	0695
Oritron	0651
P&B	0818
Pacific	0768 0790 0713 0831
Palladium	0695
Palsonic	0689 0672
Panasonic	0490 1908
Panda	0783
Philips	0539 0646 0503 1914
Phonotrend	0699
Pioneer	0571 0631 1900 1902
Pointer	0770
Powerpoint	0718
Proline	0651 0672 0790 1004
Proscan	0522
Prosonic	0699
Provision	0699
Radionette	0741
Raite	0665
Rank Arena	0718
RCA	0522 0651
REC	0689 0490
Red Star	0770 0788
Reoc	0768
Revoy	0699
Roadstar	0699 0690 0689 0713 0818
Rotel	0623
Rowa	1004
Saba	0651
Sabaki	0768
Salora	0741
Samsung	0573 0490
Sansui	0695 0716 0768 0723 0770
Sanyo	0670 0695 0790
Scan	0705
ScanMagic	0730
Schaub Lorenz	0788 0770
Schneider	0651 0783 0705 0790 0788
Scientific Labs	0768
Scott	0718 0651 0672
SEG	0665 0713 0768
Shanghai	0672
Sharp	0630 0695
Sherwood	0717 0741 0633
Shinco	0717
Silva	0788
SilvaSchneider	0831
Singer	0690 0716 0723
Skymaster	0730 0768
Slim Art	0770
SM Electronic	0730 0768 0690
Smart	0718 0705 0713
Sonashi	0716
Sony	0533 0573 1903 1904
Soundmaster	0768
Soundmax	0768
Soundwave	0783
Standard	0651 0768
Starmedia	0818
Sunwood	0788
Supervision	0730 0768
SVA	0672
Synn	0768
Tandberg	0713
Tatung	0770
Teac	0717 0741 0571 0768 0591 0790
Technics	0490 1908
Technika	0770
Techwood	0713
Tensai	0690 0651
Tevion	0651 0768
Theta Digital	0571
Thomson	0551 0522
Tokai	0665 0788
Tokiwa	0705 0716
Toshiba	0503
Umax	0690
United	0788 0730 0790
Universum	0741 0713 0591
Venturer	0790
Vieta	0705
Voxson	0730 0831
Walkvision	0717
Welkin	0831
Wesder	0699
Wharfedale	0696 0723
Windy Sam	0573
XBox	0522
XLogic	0770 0768
XMS	0788 0689
Yamada	1004
Yamaha	0490 0539 0646
Yamakawa	0665 0710 0765
Yelo	0718
Yukai	0730
Zenith	0503 0591 0741

VCR						
Adyson						0072
Aiwa	0307	0000	0209	0348	0352	0037
						0041
Akai		0106	0315	0041	0352	0240
Akashi						0072
Akiba						0072
Akura					0072	0041
Alba	0278	0072	0209	0352	0000	0315
					0348	0081
Allorgan						0240
Allstar						0081
Amstrad				0000	0278	0072
Anitech						0072
Ansonic						0000
Aristona						0081
ASA					0037	0081
Asuka		0072	0037	0081	0000	0038
Audiosonic						0278
AVP					0352	0000
AWA			0037	0278	0642	0043
Baird		0106	0278	0104	0041	0000
Basic Line				0278	0209	0072
Bestar						0278
Black Diamond					0642	0278
Black Panther						0278
Blaupunkt				1562	0226	0081
Blue Sky	0037	0209	0348	0072	0352	0278
						0000
Bondstec						0072
Brandt					0041	0320
Brandt Electronique						0041
Brinkmann					0209	0348
Bush	0072	0278	0315	0209	0352	0000
					0348	0081
Carena					0209	0081
Carrefour						0045
Casio						0000
Cathay						0278
CGE					0041	0000
Cimline					0072	0209
Clatronic					0072	0000
Combitech						0352
Condor						0278
Crown					0278	0072
Cyrus						0081
Daewoo	0278	0642	0209	0348	0352	0045

Dansai					0072	0278
Daytron						0278
de Graaf			0042	0081	0104	0048
Decca	0000	0041	0081	0067	0348	0209
Deitron						0278
Denko						0072
Diamant						0037
Domland						0209
Dual			0041	0081	0278	0000
Dumont				0000	0081	0104
Elbe					0278	0038
Elcatech						0072
Elin						0240
Elsay						0072
Elta					0072	0278
Emerson				0072	0045	0000
ESC					0278	0240
Etzuko						0072
Fast						0897
Ferguson			0041	0320	0000	0278
Fidelity				0000	0072	0240
Finlandia	0104	0081	0042	0000	0048	0384
Finlux			0000	0081	0104	0042
Firstline	0072	0209	0348	0043	0037	0045
					0042	0278
Fisher				0047	0104	0038
Flint						0209
Frontech						0072
Fujitsu						0000
Funai						0000
Galaxi						0000
Galaxis						0278
GE						0320
GEC						0081
General Technic						0348
Genexxa						0104
Goldhand						0072
GoldStar					0037	0000
Goodmans	0000	0072	0240	0278	0037	
			0081	0348	0209	0352	0642
Graetz				0041	0104	0240
Granada	0104	0048	0081	0240	0037	0226
					0042	0000
Grandin	0072	0037	0000	0278	0209	
Grundig	0081	0347	0226	0320	0348	0072
Haaz					0348	0209
Hanimex						0352

Hanseatic	0037	0209	0278	0081	0038
Harwood					0072
HCM					0072
Hinari	0072	0209	0352	0041	0278	0240
Hisawa					0209	0352
Hischito						0045
Hitachi	0042	0041	0000	0240	0081	0104
						0384
Hornyphone						0081
Hypson			0072	0209	0278	0352
Imperial					0000	0240
Ingersoll					0209	0240
Inno Hit				0240	0278	0072
Interbuy					0037	0072
Interfunk					0081	0104
Internal						0278
International					0278	0037
Intervision	0000	0278	0037	0209	0348
Irradio				0072	0037	0081
ITT	0106	0041	0384	0104	0240
ITT Nokia						0048
ITV					0278	0037
JMB					0209	0352
Joyce						0000
JVC				0041	0067	0384
Kaisui						0072
Kambrook						0037
Karcher						0278
Kendo	0106	0209	0315	0348	0072	0037
Kenwood					0041	0038
KIC						0000
Kimari						0047
Kneissel			0352	0209	0348	0037
Kolster					0209	0348
Korpel						0072
Kuba						0047
Kuba Electronic						0047
Kuwa						0226
Kyoto						0072
Lenco						0278
Leyco						0072
LG				0037	0000	0278
Lifetec					0209	0348
Loewe		0081	1562	0226	0866	0037
Logik			0240	0072	0106	0209
Lumatron						0278
Luxor	0106	0043	0072	0104	0047	0048

Brand	Codes
Magnavox	0081
Manesth	0072 0045 0081 0209
Marantz	0081 0038 0209
Mark	0278
Matsui	0209 0348 0037 0240 0352 0000
Mediator	0081
Medion	0209 0348 0352
Melectronic	0000 0037 0038
Memorex	0104 0000 0037 0048 0047
Memphis	0072
Metz	1562 0347 0081 0226 0037
Micormay	0348
Micromaxx	0209
Migros	0000
Mitsubishi	0043 0067 0081
Multitec	0037
Multitech	0000 0072 0104
Murphy	0000
Myryad	0081
NAD	0104
National	1562 0226
NEC	0041 0038 0067 0104 0037
Neckermann	0041 0081
Nesco	0072 0000 0352
Neufunk	0209
Nikkai	0072 0278
Nokia	0104 0106 0315 0041 0278 0240 0048 0042 0081
Nordmende	0041 0384 0320 0067
NU-TEC	0209 0348
Oceanic	0000 0048 0106 0081 0104 0041
Okano	0315 0209 0348 0072 0278
Orbit	0072
Orion	0209 0352 0348
Orson	0000
Osaki	0000 0037 0072
Osume	0072
Otake	0209
Otto Versand	0081
Palladium	0072 0315 0037 0041 0209 0240 0348 0432
Palsonic	0072 0000
Panasonic	1562 0226
Pathe Cinema	0043
Pathe Marconi	0041
Perdio	0000 0209
Philco	0038 0072
Philips	0081 0384
Phoenix	0278
Phonola	0081
Pioneer	0067 0081 0042
Portland	0278
Prinz	0000
Profitronic	0081 0240
Proline	0000 0320
Prosco	0278
Prosonic	0209 0278 0000
Protech	0081
Provision	0278
Pye	0081
Quasar	0278
Quelle	0081
Radialva	0037 0072 0081 0048
Radiola	0081
Rank	0041
Reoc	0209 0348 0278
Rex	0041 0384
RFT	0072
Roadstar	0240 0072 0037 0278
Royal	0072
Saba	0041 0320 0384 0278
Saisho	0209 0348
Salora	0043 0106 0104
Samsung	0240 0432
Sansui	0041 0067 0106 0072 0348
Sanyo	0104 0047 0048 0067
Saville	0352 0278 0240
SBR	0081
Scan Sonic	0240
Schaub Lorenz	0041 0104 0000 0106 0315
Schneider	0072 0000 0037 0081 0278 0240 0042 0897
Seaway	0278
SEG	0072 0240 0278 0642 0081
SEI	0081
Sei-Sinudyne	0081
Seleco	0041 0384 0037
Sentra	0072
Setron	0072
Sharp	0048 0037 0569
Shintom	0072 0104
Shivaki	0037
Siemens	0037 0104 0081 0320 0347
Siera	0081
Silva	0037
Silver	0278
Singer	0045
Sinudyne	0081 0209
Smaragd	0348
Sonitron	0047
Sonneclair	0072
Sonoko	0278
Sonolor	0048
Sontec	0037 0278
Sony	0032 0106
Soundwave	0037 0209 0348
Ssangyong	0072
Standard	0278
Starlite	0037 0104
Stern	0278
Sunkai	0209 0348 0278
Sunstar	0000
Suntronic	0000
Sunwood	0072
Supra	0037 0240
Symphonic	0000 0072
T+A	0226
Taisho	0209
Tandberg	0278
Tashiko	0000 0048 0240 0081 0037
Tatung	0000 0041 0081 0048 0043 0209 0348 0352
Teac	0072 0041 0000 0278 0642 0037 0081 0307
TEC	0278 0072
Tech Line	0072
TechniSat	0348 0209
Teleavia	0041
Telefunken	0041 0320 0384 0278
Teletech	0072 0278 0000
Tenosal	0072
Tensai	0000 0037 0072
Tevion	0348 0209
Thomson	0320 0041 0067 0384 0278
Thorn	0041 0104 0037
Thorn-Ferguson	0320
Tokai	0072 0037 0041 0104
Tokiwa	0072
Topline	0348
Toshiba	0045 0041 0384 0043 0081
Towada	0072

Tredex	0278
Uher	0037 0240
Ultravox	0278
Unitech	0240
United Quick Star	0278
Universum	0000 0081 0240 0037 0106
	0348 0209 0104
Victor	0067
Watson	0081 0352 0278 0642
Weltblick	0037
Yamaha	0041
Yamishi	0072 0278
Yokan	0072
Yoko	0037 0072 0240
ZX	0209

SAT (STB)

@sat	1300
ABsat	0668 0123 1323 0710
ADB	0642
Adcom	0200
AGS	0668 0710
Akai	0200
Akena	0668
Alba	0455 0713
Allsat	0200 1017 1043
Alltech	0713
Alpha	0668 0200
Altai	0396
Amitronica	0713
Ampere	0396 0132
Amstrad	0847 0713 0742 0396 0132 0882
	0885 0863 0501 0795 1113
Anglo	0713
Ankaro	0713
AntSat	1017 1083
Apollo	0455
Arcon	1205 1043 0834 0132 1075
Armstrong	0200
Asat	0200
ASLF	0713
AssCom	0853
Astacom	0668 0710
Aston	1129
Astra	0607 0713
Astro	0133 0173 0501 0658 0607 1113
	1099 1100 0200

Athena	0668
Atlanta	0871
Aurora	0879
Austar	0863 0642 0497 0879 1176
Avalon	0396
Axiel	0668 0710
Axis	1111 0834
Beko	0455
Bentley Walker	1017
Blaupunkt	0173
Blue Sky	0713 0885
Boca	0132 0713
Boston	0132 0710 0668
Broco	0713
BskyB	0847 1175
BT	0668 0710
Bubu Sat	0713
Cambridge	0501
Canal Satellite	0853
Canal+	0853
Cherokee	0123 0710 1323
Chess	0157 0605 0713 1085
CityCom	1176 0115 0607 0299
Clemens Kamphus	0834 0396
Cobra	0396
Colombia	0668 0132
Columbia	0132
Columbus	0668
Comag	0132
Condor	0607
Connexions	0396
Conrad	0607 0573 0115 0501
Conrad Electronic	0607 0713
Cryptovision	0455 0795
Cyrus	0200
D-box	1127 1114 0723
Daeryung	0396
Daewoo	1296 0713
Delfa	0863
Deltasat	1075
DGTEC	1242
Digatron	1294
Digenius	0299
Digiality	0607
Digipro	1105
DigiQuest	0863
Discoverer	0605 0157

Discovery	0668 0710
Diseqc	0710
Distratel	0084 0885 1205
Distrisat	0200
DMT	1075
DNT	0200 0396
DREAM multimedia.TV	1237
DStv	0642 0879
Echostar	0610 1169 0871 0167 0853 1086
	1200 0454 0396 0713 0668 0511 0453
Einhell	0132 0713 0501
Elap	0713 1129 0668 0710
Elsat	0713
Elta	0200
Emme Esse	0871
Engel	1017 0713
EP Sat	0455
Eurieult	0084 0885 0882
Eurocrypt	0455
Europa	0863 0607 0501 0200
Europhon	0299 0607
Eurosky	0607 0132 0299 0115 0114 0501
Eurostar	0607 0115
Fenner	0668 0157 0605 0713
Ferguson	0455
Fidelity	0501
Finlandia	0455
Finlux	0573 0455
Flair Mate	0713
Force	1101
Fortec Star	1017 1083
Foxtel	0879 0720 0455 0497 0795 1176
Fracarro	0871 0668
Freecom	0501 0173
Freesat	0882
FTEmaximal	0713 0863
Fuba	0396 0173 0573 0115 0299
Fugionkyo	1105
Galaxis	1111 1101 0834 0863 1176 0853
	0115 0879
Garnet	1075
GF	0834 1043
GF Star	1043
GOD Digital	0200
Goldbox	0853
Goldvision	1017
Gooding	0571

Goodmans	1284 0455
Gradiente	0887
Granada	0455
Grandin	0084
Grundig	0173 0847 1150 1291 1435 0571
	0750 0879 0885 0853 0501 1297 1330
Hanseatic	0605 1099 1100
Hänsel & Gretel	0132 0607
Hauppauge	1294
HDT	1011
Heliocom	0607
Helium	0607
Hirschmann	0396 0882 1113 1111 0173
	0573 1085 0299 0501 0710 0607 0668
Hitachi	0455
HNE	0742 0132
Houston	0668 0396
Humax	1176 0863
Huth	0132 0607 1017 1075
Hyundai	1011 1159 1075
ID Digital	1176 0863
Imex	0084
Ingelen	0396 0882
International	0132
Interstar	1105 1017
Intervision	0628 0607
Invideo	0871
IRTE	0609
Italtel	0871
ITT Nokia	0573 0455 0723
JOK	0710
JVC	0571
K-SAT	0713
Kamm	0713
Kaon	1300
KaTelco	1111
Kathrein	0658 0249 1057 0173 1221 0200
	0713 0668 0742 0123 0115 1323 0710
Kathrein Eurostar	0115
Kiton	0114
Klap	0668 0710
Konig	0607
Koscom	0834 1043
Kreiling	0658 0249 0114
Kreiselmeyer	0173
Kyostar	0132
L&S Electronic	1043

Labgear	1296
LaSAT	0607 0115 0132 0157 0299
Lenco	0713 0115 0607
Lenson	0501
Lexus	0200
LG	1075
Lifesat	0605 0299 1043 0713
Logix	1017 1075
Lorenzen	0299 1294 0607 0742 0132
Luxor	0573 0501
M&B1	0605
Manata	0710 0668 0713
Manhattan	1083 0455 0710 0668 0834 1017
Marantz	0200
Maspro	0750 0713 0173 0571
Matsui	0571 0710 0173
Max	0607
MB	0605
Mediabox	0853
Mediacom	1206
MediaSat	0501 0853
Medion	0713 0299 1043
Medison	0713
Mega	0200
Metronic	0713 1215 0084 0885 1205
Metz	0173
Micro	0607 0501 0713
Micro electronic	0713
Micro Technology	0713
Micromaxx	0299
Microtec	0713
Minerva	0571
Mitsubishi	0455
Morgan's	0200 0713 0132
Motorola	0856
Multichoice	0642 0879
Multitec	0157
Myryad	0200
Mysat	0713
Netgem	1322
Neuhaus	0501 0713 0834 0607
Neusat	0713 0834
Nikko	0713 0723 0200
Nokia	1023 1114 0751 1127 0723 0853
	0573 1223 0455 1723 1310 1312
Nordmende	0455
Nova	0879

OctalTV	1294
Okano	0668
OnDigital	0751 0329 0241 0867 0133
Optex	0834
Optus	0879 0853
Orbitech	1099 1100 0200 0501 0157
Origo	0497
Ouralis	1205
Oxford	0668
Pace	0455 0847 0887 1175 0241 0867
	0123 1323 0791 0795 0720 0497 0200
	0853 0710 1423
Packsat	0710
Palcom	0299
Palladium	0571 0501
Palsat	0501
Panasat	0879 0615
Panasonic	0847 1104 0455 1320
Panda	0455 0607 0173 0834
Patriot	0668
Philips	0200 1114 0853 0455 0750 0710
	0668 0571 0173 0133 1336
Phonotrend	0863 1017 1200
Pioneer	0329 0853 0352
Planet	0871 0396
Polytron	0396
Praxis	0511
Preisner	0132 0396 1101 1113
Premiere	0853 1114 1127 0723 1111 1176
	1195 1100 0249 0658 1435
Primacom	1111
Profile	0668 0710
Promax	0455
Prosat	0628
Prosonic	0742
Pye	0571
Pyxis	0834
Quadral	0628 0668 0710 1323
Quelle	0607 0742 0115
Radiola	0200
Radix	0396 1113 0882
RFT	0200
Roadstar	0713
Rover	0628 0713
Saba	0710 0885 0115 0607
Sabre	0455
Sagem	0820 1114 1253

Samsung	0863	1243	1343	0853	1206	1017
					1293	1292
SAT						0501
Sat Control						1300
Sat Partner						0501
Sat Team						0713
Satcom					0605	0607
Satec					0713	0834
Satline						0628
Satstation						1083
Schneider			0710	0668	0157	1206
Schwaiger	0605	0157	0607	0885	1111	
					0132	1075
SCS					0115	0299
Seemann						0396
SEG			0605	0742	0114	1087
Seleco						0871
Septimo					1205	0885
Siemens						0173
Skantin						0713
Skinsat						0501
SKR						0713
Sky			0847	0856	0887	1014
SKY+						1175
Skymaster	0713	0605	0157	1200	1085	1075
0628						
Skymax						0200
SkySat				0157	0605	0713
SL					0132	0742
SM Electronic		0157	0713	1200	1075	1085
Smart	0132	0299	1101	0882	0396	1113
					0115	0713
Sony			0282	0847	0853	0455
SR						0132
Starland						0713
Strong		0879	0853	1105	1159	1300
Sunsat						0713
Sunstar						0132
Tantec						0455
Tatung						0455
Teac						1322
Tecatel						1200
TechniSat	0200	1099	1100	1195	0501	1322
Technosat						1206
Technowelt					0607	0885
Techsan						1017
Techwood						0114

Telasat				0605	0115	0607
Teleciel						1043
Telecom						0713
Telefunken						0710
Teleka		0396	0750	0501	0607	0834
Telesat					0605	0607
Telestar	0501	1099	1100	0114	0200	0157
Teletech						0114
Televes				0455	0501	0132
Thomson	0455	0713	0853	0115	0607	1291
			0820	0668	0710	1046
Thorn						0455
Tokai						0200
Tonna		0455	0668	0501	0713	0834
Topfield						1206
Toshiba						0455
TPS					0820	1253
Triasat						0501
Triax	0501	0115	0200	0396	0713	0853
			0114	1296	1291	0132
Turnsat						0713
Twinner					0132	0713
UEC						0879
Uher						0157
Unisat						0200
Universum		0173	0571	0607	0299	0115
					0742	1087
Van Hunen						0299
Variosat						0173
Ventana						0200
Vestel						0742
VH-Sat						0299
Viasat				1323	1023	0820
Visionic						1105
Visiosat					0710	0713
Wetekom				0157	0605	0501
Wewa						0455
Wisi	0173	0396	0299	0455	0501	0607
						0834
Worldsat			0710	0114	0123	0668
XCOM					0123	0668
XSat				0668	0713	0123
Xtreme						1300
YES						0887
Zehnder		1075	0742	0114	0115	0419
Zenith						0856
Zeta Technology						0200
Zinwell						1176

Cable Box (STB)

Austar		0276
BT		0003
Canal Plus		0443
Comcrypt		0443
Decsat		0423
Filmnet		0443
France Telecom		0817
General Instruments		0276
Jerrold	0003	0276
Kabelvision		0003
Macab		0817
Melita		0003
MNet		0443
Mr Zapp		0817
Noos		0817
NTL Cabletell		0276
Ono		1068
Optus	0276	1060
Pace	1068	1060
Philips	0817	0286
PVP Stereo Visual		0003
Sagem		0817
Tele+1		0443
Telepiu		0443
Tudi		0286
United Cable		0003
Visiopass		0817